



SEQUENCE LISTING

GENERAL INFORMATION:

- (i) APPLICANT: Hadlaczky, Gyula
Szalay, Aladar
- (ii) TITLE OF INVENTION: ARTIFICIAL CHROMOSOMES, USES THEREOF
AND METHODS FOR PREPARING ARTIFICIAL CHROMOSOMES
- (iii) NUMBER OF SEQUENCES: 34
- (iv) CORRESPONDENCE ADDRESS:
 - (A) ADDRESSEE: Heller Ehrman White & McAuliffe
 - (B) STREET: 4350 La Jolla Village Drive, 6th Floor
 - (C) CITY: San Diego
 - (D) STATE: CA
 - (E) COUNTRY: USA
 - (F) ZIP: 92122
- (v) COMPUTER READABLE FORM:
 - (A) MEDIUM TYPE: Diskette
 - (B) COMPUTER: IBM Compatible
 - (C) OPERATING SYSTEM: DOS
 - (D) SOFTWARE: FastSEQ Version 1.5
- (vi) CURRENT APPLICATION DATA:
 - (A) APPLICATION NUMBER: US/09/836,911
 - (B) FILING DATE: 17-APR-2001
 - (C) CLASSIFICATION:
- (vii) PRIOR APPLICATION DATA:
 - (A) APPLICATION NUMBER: 08/835,682
 - (B) FILING DATE: 10-APR-1997
 - (A) APPLICATION NUMBER: 08/695,191
 - (B) FILING DATE: 07-AUG-1996
 - (A) APPLICATION NUMBER: 08/682,080
 - (B) FILING DATE: 15-JUL-1996
 - (A) APPLICATION NUMBER: 08/629,822
 - (B) FILING DATE: 10-APR-1996
- (viii) ATTORNEY/AGENT INFORMATION:
 - (A) NAME: Seidman, Stephanie L
 - (B) REGISTRATION NUMBER: 33,779
 - (C) REFERENCE/DOCKET NUMBER: 24601-4021
- (ix) TELECOMMUNICATION INFORMATION:
 - (A) TELEPHONE: 858-450-8403
 - (B) TELEFAX: 858-587-5360
 - (C) TELEX:

(2) INFORMATION FOR SEQ ID NO:1:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 1293 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: Genomic DNA
- (iii) HYPOTHETICAL: NO
- (iv) ANTI-SENSE: NO
- (v) FRAGMENT TYPE:
- (vi) ORIGINAL SOURCE:

(ix) FEATURE:

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:

GAATTCATCA	TTTTTCANGT	CCTCAAGTGG	ATGTTTCTCA	TTTNCCATGA	TTTAAAGTTT	60
TCTCGCCATA	TTCCTGGTCC	TACAGTGTGC	ATTTCTCCAT	TTTNCACGTT	TTNCAGTGAT	120
TTCGTCAATT	TCAAGTCCTC	AAGTGGATGT	TTCTCATTIN	CCATGAATTT	CAGTTTTCTN	180
GCCATATTCC	ACGTCCTACA	GNGGACATTT	CTAAATTTNC	CACCTTTTTTC	AGTTTTCTCTC	240
GCCATATTTC	ACGTCCTAAA	ATGTGTATTT	CTCGTTTNCC	GTGATTTTCA	GTTTTCTCGC	300
CAGATTCCAG	GTCCTATAAT	GTGCATTTCT	CATTTNMCAC	GTTTTTCAGT	GATTTTCGTCA	360
TTTTTTCAAG	TCGGCAAGTG	GATGTTTCTC	ATTTNCCATG	ATTTNCAGTT	TTCTTGNAAT	420
ATTCCATGTC	CTACAATGAT	CATTTTTTAAT	TTTCCACCTT	TTCATTTTTTC	CACGCCATAT	480
TTCATGTCCT	AAAGTGTATA	TTTCTCCTTT	TCCGCGATTT	TCAGTTTTCT	CGCCATATTC	540
CAGGTCCCTAC	AGTGTGCATT	CCTCATTTTT	CACCTTTTTTC	ACTGATTTTCG	TCATTTTTTCA	600
AGTCGTCAAC	TGGATCTTTC	TAATTTTCCA	TGATTTTCAG	TTATCTTGTC	ATATTCCATG	660
TCCTACAGTG	GACATTTCTA	AATTTTCCAA	CTTTTTCAAT	TTTTCTCGAC	ATATTTGACG	720
TGCTAAAGTG	TGTATTTCTT	ATTTTCCGTG	ATTTTCAGTT	TTCTCGCCAT	ATTCCAGGTC	780
CTAATAGTGT	GCATTTCTCA	TTTTTCACGT	TTTTTCAGTGA	TTTCGTCAAT	TTTTCCAGTT	840
GTCAAGGGGA	TGTTTCTCAT	TTTCCATGAG	TGTCAGTTTT	CTTGCTATAT	TCCATGTCTCT	900
ACAGTGACAT	TTCTAAATAT	TATACCTTTT	TCAGTTTTTC	TCACCATATT	TCACGTCCTA	960
AAGTATATAT	TTCTCATTTT	CCCTGATTTT	CAGTTTCCTT	GCCATATTCC	AGGTCCTACA	1020
GTGTGCATTT	CTCATTTTTT	ACGTTTTTCA	GTAATTTCTT	CATTTTTTTAA	GCCCTCAAAT	1080
GGATGTTTCT	CATTTTCCAT	GATTTTCAGT	TTTCTTGCCA	TATACCATGT	CCTACAGTGG	1140
ACATTTCTAA	ATTATCCACC	TTTTTCAGTT	TTTCTCGGC	ACATTTACAG	TCCTAAAGTG	1200
TGATTTCTA	ATTTTCAGTG	ATTTTCAGTT	TTCTCGCCAT	ATTCCAGGAC	CTACAGTGTG	1260
CATTTCTCAT	TTTTTCAGTT	TTTCAGTGAA	TTC			1293

(2) INFORMATION FOR SEQ ID NO:2:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 1044 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: Genomic DNA

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(v) FRAGMENT TYPE:

(vi) ORIGINAL SOURCE:

(ix) FEATURE:

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:

AGGCCTATGG	TGAAAAAGGA	AATATCTTCC	CCTGAAAACT	AGACAGAAGG	ATTCTCAGAA	60
TCTTATTTGT	GATGTGCGCC	CCTCAACTAA	CAGTGTTGAA	GCTTTCTTTT	GATAGAGCAG	120
TTTTGAAACA	CTCTTTTGT	AAAATCTGCA	AGAGGATATT	TGGATAGCTT	TGAGGATTTT	180
CGTTGGAAC	GGGATTGTCT	TCATATAAAC	CCTAGACAGA	AGCATTCTCA	GAAGCTTCAT	240
TGGGATGTTT	CAGTTGAAGT	CACAGTGTTG	AACAGTCCCC	TTTCATAGAG	CAGGTTTGAA	300
ACACTCTTTT	TTGTAGTATC	TGGAAGTGGA	CATTTGGAGC	GATCTCAGGA	CTGCGGTGAA	360
AAAGGAAATA	TCTTCCAATA	AAAGCTAGAT	AGAGGCAATG	TCAGAAACCT	TTTTTCATGAT	420
GTATCTACTC	AGCTAACAGA	GTTGAACCTT	CCTTTGAGAG	AGCAGTTTTG	AAACACTCTT	480
TTTGTGGAAT	CTGCAAGTGG	ATATTTGTCT	AGCTTTGAGG	ATTTCGTTGG	GAAACGGGAT	540
TACATATAAA	AAGCAGACAG	CAGCATTTCC	AGAAACTTCT	TTGTGATGTT	TGCATTCAAG	600
TCACAGAGTT	GAACATTCCC	TTTCATAGAG	CAGGTTTGAA	ACACACTTTT	TGATGTATCT	660
GGATGTGGAC	ATTTCAGCG	CTTTCAGGCC	TAAGGTGAAA	AGGAAATATC	TTCCCCTGAA	720
AAC TAGACAG	AAGCATTCTC	AGAAACTTAT	TTGTGATGTG	CGCCCTCAAC	TAACAGTGTT	780
GAAGCTTTCT	TTTGATAGAG	GCAGTTTTGA	AACACTCTTT	TGTGGAATCT	GCAAGTGGAT	840
ATTTGTCTAG	CTTTGAGGAT	TTCTTTGGAA	ACGGGATTAC	ATATAAAAAG	CAGACAGCAG	900
CATTCCCAGA	ATCTTGTTTG	TGATGTTTGC	ATTCAAGTCA	CAGAGTTGAA	CATTCCCTTT	960
CAGAGAGCAG	GTTTGAACAC	TCTTTTATA	GTATCTGGAT	GTGGACATTT	GGAGCGCTTT	1020
CAGGGGGGAT	CCTCTAGAAT	TCCT				1044

(2) INFORMATION FOR SEQ ID NO:3:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 2492 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: Genomic DNA
- (iii) HYPOTHETICAL: NO
- (iv) ANTI-SENSE: NO
- (v) FRAGMENT TYPE:
- (vi) ORIGINAL SOURCE:
- (ix) FEATURE:
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:

CTGCAGCTGG	GGGTCTCCAA	TCAGGCAGGG	GCCCCCTTACT	ACTCAGATGG	GGTGGCCGAG	60
TAGGGGAAGG	GGGTGCAGGC	TGCATGAGTG	GACACAGCTG	TAGGACTACC	TGGGGGCTGT	120
GGATCTATGG	GGGTGGGGAG	AAGCCCAGTG	ACAGTGCCTA	GAAGAGACAA	GGTGGCCTGA	180
GAGGGTCTGA	GGAACATAGA	GCTGGCCATG	TTGGGGCCAG	GTCTCAAGCA	GGAAGTGAGG	240
AATGGGACAG	GCTTGAGGAT	ACTCTACTCA	GTAGCCAGGA	TAGCAAGGAG	GGCTTGGGGT	300
TGCTATCCTG	GGGTTCAACC	CCCCAGGTTG	AAGGCCCTGG	GGGAGATGGT	CCCAGGACAT	360
ATTACAATGG	ACACAGGAGG	TTGGGACACC	TGGAGTCACC	AAACAAAACC	ATGCCAAGAG	420
AGACCATGAG	TAGGGGTGTC	CAGTCCAGCC	CTCTGACTGA	GCTGCATTGT	TCAAATCCAA	480
AGGGCCCTG	TAGGCCACCTA	GTGGCTGATG	GCATCCACAT	GACCCTGGGC	CACACGCGTT	540
TAGGGTCTCT	GTGAAGACCA	AGATCCTTGT	TACATTGAAC	GACTCCTAAA	TGAGCAGAGA	600
TTTCCACCTA	TTCGAAACAA	TCACATAAAA	TCCATCCTGG	AAAAAGCCTG	GGGGATGGCA	660
CTAAGGCTAG	GGATAGGGTG	GGATGAAGAT	TATAGTTACA	GTAAGGGGTT	TAGGGTTAGG	720
GATCAACGTT	GGTTAGGAGT	TAGGGATACA	GTAGGGTACC	GGTAGGGTTA	GGGGTTAGGG	780
TTAGGGGTTA	GGGTTAGGGT	TAGGGTTAGG	GTTAGGGTTA	GGGGTTAGGG	GTTAGGGTTA	840
GGGTTAGGTT	TTGGGGTGCG	GTATTTTGGT	CTTATACGCT	GTGTTCCACT	GGCAATGAAA	900
AGAGTTCTTG	TTTTTCCTTC	AGCAATTTGT	CATTTTAAAA	AGAGTTTAGC	AATTCTAACA	960
GATATAGACC	AGCTGTGCTA	TCTCATTGTG	GTTTTCATTT	GTAACCACAT	TGTGGTTTCA	1020
ATGTGTTTAC	TTGCCATCTG	TAGATCTTCT	TTGCGTGAGG	TGTCGTGTCA	GATGTGTGTG	1080
CATTTCTTGN	NTTTNGGCTG	TTTAACTTAT	TGTTTAGTTT	TAATAATTTT	TTATATATTT	1140
GAAGACAAAT	CTTTCTCAGA	TGTGTATTTG	CAAATATTTT	TTCAATATGA	GGCTTGCTTT	1200
TGTCTCTAAC	AAGGTCTCTT	CAGAGATAAC	TTAAATATAA	GAAATCCACA	CTGTCACTTC	1260
TTTTGTGTAT	ATCTACCTTT	TGTGTCAATTT	GTTAAAAATC	ATTACCAAAC	CCAAAGGCAG	1320
ATAGCTTTTC	TTCTATTGTT	TCTTCTAGAA	ATTTGTATAG	TTTTGCATTT	TTAGTGTAA	1380
GATGATTTTG	AGTGATTATT	TGTGTAAGTT	GTAAAGTTT	CGTCTATATC	CATATCATTT	1440
CTTATGGTTT	CCAATTAATC	GTTCCCTCAC	TATTTTGGG	AAAGACACAG	GATAGTGGGC	1500
TTTGTTAGAG	TAGATAGGTA	GCTAGACATG	AACAGGAGGG	GGCCTCCTGG	AAAAGGGAAA	1560
GTCTGGGAAG	GCTCACCTGG	AGGACCACCA	AAAATTCACA	TATTAGTAGC	ATCTCTAGTG	1620
CTGGAGTGA	TGGGCACCTG	TCAATTGTGG	GTAGGAGGGA	AAAGAGGTCC	TATGCAGAAA	1680
GAAACTCCCT	AGAACTCCTC	TGAAGATGCC	CCAATCATTC	ACTCTGCAAT	AAAAATGTCA	1740
GAATATTGCT	AGCTACATGC	TGATAAGGNN	AAAGGGGACA	TTCTTAAGTG	AAACCTGGCA	1800
CCATAAGTAC	AGATTAGGGC	AGAGAAGGAC	ATTCAAAAAG	GGCAGGCGCA	GTAGGTACAA	1860
ACGTGATCGC	TGTCAGTGTG	CCTGGGATGG	CGGGAAGGAG	GCTGGTGCCA	GAGTGGATTC	1920
GTATTGATCA	CCACACATAT	ACCTCAACCA	ACAGTGAGGA	GGTCCCACAA	GCCTAAGTGG	1980
GGCAAGTTGG	GGAGCTAAGG	CAGTAGCAGG	AAAACCAGAC	AAAGAAAAACA	GGTGGAGACT	2040
TGAGACAGAG	GCAGGAATGT	GAAGAAATCC	AAAATAAAAT	TCCCTGCACA	GGACTCTTAG	2100
GCTGTTTAA	GCATCGCTCA	GTCCCACTCC	TCCCTATTTT	TCTACAATAA	ACTCTTTACA	2160
CTGTGTTTCT	TTTCAATGAA	GTTATCTGCC	ATCTTTGTAT	TGCCTCTTGG	TGAAAATGTT	2220
TCTTCCAAGT	TAAACAAGAA	CTGGGACATC	AGCTCTCCCC	AGTAATAGCT	CGGTTTCAGT	2280
TTGAATTTAC	AGAAGTATG	GGCTTAATAA	CTGGCGCTCT	GACTTTTAGTG	GTGCAGGAGG	2340
CCGTACACAC	GGGACCAAGA	GTGCCCTGCC	TAGTCCCCAT	CTGCCCCGAG	GTGGCGGCTG	2400
CCTCGACACT	GACAGCAATA	GGGTCCGGCA	GTGTCCCCAG	CTGCCAGCAG	GGGGCGTACG	2460
ACGACTACAC	TGTGAGCAAG	AGGGCCCTGC	AG			2492

(2) INFORMATION FOR SEQ ID NO:4:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 28 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: Genomic DNA

- (iii) HYPOTHETICAL: NO
- (iv) ANTI-SENSE: NO
- (v) FRAGMENT TYPE:
- (vi) ORIGINAL SOURCE:
- (ix) FEATURE:

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:

GGGGAATTCA TTGGGATGTT TCAGTTGA

28

(2) INFORMATION FOR SEQ ID NO:5:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 29 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: DNA
- (iii) HYPOTHETICAL: NO
- (iv) ANTI-SENSE: NO
- (v) FRAGMENT TYPE:
- (vi) ORIGINAL SOURCE:
- (ix) FEATURE:

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:

CGAAAGTCCC CCCTAGGAGA TCTTAAGGA

29

(2) INFORMATION FOR SEQ ID NO:6:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 47 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: Gemomic DNA
- (iii) HYPOTHETICAL: NO
- (iv) ANTI-SENSE: NO
- (v) FRAGMENT TYPE:
- (vi) ORIGINAL SOURCE:
- (ix) FEATURE:

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:

CCGCTTAATA CTCTGATGAG TCCGTGAGGA CGAAACGCTC TCGCACC

47

(2) INFORMATION FOR SEQ ID NO:7:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 25 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: Genomic DNA
- (iii) HYPOTHETICAL: NO
- (iv) ANTI-SENSE: NO
- (v) FRAGMENT TYPE:
- (vi) ORIGINAL SOURCE:
- (ix) FEATURE:

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:7:

(2) INFORMATION FOR SEQ ID NO:8:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 27 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: Genomic DNA
- (iii) HYPOTHETICAL: NO
- (iv) ANTI-SENSE: NO
- (v) FRAGMENT TYPE:
- (vi) ORIGINAL SOURCE:
- (ix) FEATURE:
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:8:

TAAATTTAAT TAATTCGGGC CCGTCGA

27

(2) INFORMATION FOR SEQ ID NO:9:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 69 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: Genomic DNA
- (D) OTHER INFORMATION IL-2 signal sequence
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:9:

ATG	TAC	AGG	ATG	CAA	CTC	CTG	TCT	TGC	ATT	GCA	CTA	AGT	CTT	GCA	CTT	48
Met	Tyr	Arg	Met	Gln	Leu	Leu	Ser	Cys	Ile	Ala	Leu	Ser	Leu	Ala	Leu	
1				5				10						15		

GTC	ACA	AAC	AGT	GCA	CCT	ACT	69
Val	Thr	Asn	Ser	Ala	Pro	Thr	
						20	

(2) INFORMATION FOR SEQ ID NO:10:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 945 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (vi) ORIGINAL SOURCE:
- (ix) FEATURE:
 - (A) NAME/KEY: Coding Sequence
 - (B) LOCATION: 1...942
 - (D) OTHER INFORMATION: Renilla Reinformis Luciferase
- (x) PUBLICATION INFORMATION:
 - (H) Document Number: 5,418,155
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:10:

AGC Ser 1	TTA Leu	AAG Lys	ATG Met	ACT Thr 5	TCG Ser	AAA Lys	GTT Val	TAT Tyr	GAT Asp 10	CCA Pro	GAA Glu	CAA Gln	AGG Arg	AAA Lys 15	CGG Arg	48
ATG Met	ATA Ile	ACT Thr 20	GGT Gly	CCG Pro	CAG Gln	TGG Trp	TGG Trp 25	GCC Ala	AGA Arg	TGT Cys	AAA Lys	CAA Gln	ATG Met 30	AAT Asn	GTT Val	96
CTT Leu	GAT Asp	TCA Ser 35	TTT Phe	ATT Ile	AAT Asn	TAT Tyr 40	TAT Tyr	GAT Asp	TCA Ser	GAA Glu	AAA Lys	CAT His 45	GCA Ala	GAA Glu	AAT Asn	144
GCT Ala 50	GTT Val	ATT Ile	TTT Phe	TTA Leu	CAT His	GGT Gly 55	AAC Asn	GCG Ala	GCC Ala	TCT Ser	TCT Ser 60	TAT Tyr	TTA Leu	TGG Trp	CGA Arg	192
CAT His 65	GTT Val	GTG Val	CCA Pro	CAT His	ATT Ile 70	GAG Glu	CCA Pro	GTA Val	GCG Ala	CGG Arg 75	TGT Cys	ATT Ile	ATA Ile	CCA Pro	GAT Asp 80	240
CTT Leu	ATT Ile	GGT Gly	ATG Met	GGC Gly 85	AAA Lys	TCA Ser	GGC Gly	AAA Lys	TCT Ser 90	GGT Gly	AAT Asn	GGT Gly	TCT Ser	TAT Tyr 95	AGG Arg	288
TTA Leu	CTT Leu	GAT Asp	CAT His 100	TAC Tyr	AAA Lys	TAT Tyr	CTT Leu	ACT Thr 105	GCA Ala	TGG Trp	TTG Leu	AAC Asn	TTC Phe 110	TTA Leu	ATT Ile	336
TAC Tyr	CAA Gln	AGA Arg 115	AGA Arg	TCA Ser	TTT Phe	TTT Phe	GTC Val 120	GGC Gly	CAT His	GAT Asp	TGG Trp	GGT Gly 125	GCT Ala	TGT Cys	TTG Leu	384
GCA Ala 130	TTT Phe	CAT His	TAT Tyr	AGC Ser	TAT Tyr	GAG Glu 135	CAT His	CAA Gln	GAT Asp	AAG Lys	ATC Ile 140	AAA Lys	GCA Ala	ATA Ile	GTT Val	432
CAC His 145	GCT Ala	GAA Glu	AGT Ser	GTA Val 150	GTA Val	GAT Asp	GTG Val	ATT Ile	GAA Glu	TCA Ser 155	TGG Trp	GAT Asp	GAA Glu	TGG Trp	CCT Pro 160	480
GAT Asp	ATT Ile	GAA Glu	GAA Glu	GAT Asp 165	ATT Ile	GCG Ala	TTG Leu	ATC Ile	AAA Lys 170	TCT Ser	GAA Glu	GAA Glu	GGA Gly 175	GAA Glu	AAA Lys	528
ATG Met	GTT Val	TTG Leu 180	GAG Glu	AAT Asn	AAC Asn	TTC Phe	TTC Phe	GTG Val 185	GAA Glu	ACC Thr	ATG Met	TTG Leu	CCA Pro 190	TCA Ser	AAA Lys	576
ATC Ile	ATG Met	AGA Arg 195	AAG Lys	TTA Leu	GAA Glu	CCA Pro	GAA Glu	GAA Glu	TTT Phe	GCA Ala	GCA Ala	TAT Tyr 205	CTT Leu	GAA Glu	CCA Pro	624
TTC Phe 210	AAA Lys	GAG Glu	AAA Lys	GGT Gly	GAA Glu	GTT Val 215	CGT Arg	CGT Arg	CCA Pro	ACA Thr	TTA Leu 220	TCA Ser	TGG Trp	CCT Pro	CGT Arg	672
GAA Glu 225	ATC Ile	CCG Pro	TTA Leu	GTA Val	AAA Lys 230	GGT Gly	GGT Gly	AAA Lys	CCT Pro	GAC Asp 235	GTT Val	GTA Val	CAA Gln	ATT Ile	GTT Val 240	720
AGG Arg	AAT Asn	TAT Tyr	AAT Asn	GCT Ala 245	TAT Tyr	CTA Leu	CGT Arg	GCA Ala	AGT Ser 250	GAT Asp	GAT Asp	TTA Leu	CCA Pro	AAA Lys 255	ATG Met	768
TTT Phe	ATT Ile	GAA Glu	TCG Ser 260	GAT Asp	CCA Pro	GGA Gly	TTC Phe	TTT Phe 265	TCC Ser	AAT Asn	GCT Ala	ATT Ile	GTT Val 270	GAA Glu	GGC Gly	816

GCC AAG AAG TTT CCT AAT ACT GAA TTT GTC AAA GTA AAA GGT CTT CAT	864
Ala Lys Lys Phe Pro Asn Thr Glu Phe Val Lys Val Lys Gly Leu His	
275 280 285	
TTT TCG CAA GAA GAT GCA CCT GAT GAA ATG GGA AAA TAT ATC AAA TCG	912
Phe Ser Gln Glu Asp Ala Pro Asp Glu Met Gly Lys Tyr Ile Lys Ser	
290 295 300	
TTC GTT GAG CGA GTT CTC AAA AAT GAA CAA TAA	945
Phe Val Glu Arg Val Leu Lys Asn Glu Gln	
305 310	

(2) INFORMATION FOR SEQ ID NO:11:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 30 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: Genomic DNA
- (iii) HYPOTHETICAL: NO
- (iv) ANTI-SENSE: NO
- (v) FRAGMENT TYPE:
- (vi) ORIGINAL SOURCE:
- (ix) FEATURE:

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:11:

TTTGAATTC A TGTACAGGAT GCAACTCCTG 30

(2) INFORMATION FOR SEQ ID NO:12:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 30 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: Genomic DNA
- (iii) HYPOTHETICAL: NO
- (iv) ANTI-SENSE: NO
- (v) FRAGMENT TYPE:
- (vi) ORIGINAL SOURCE:
- (ix) FEATURE:

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:12:

TTTGAATTCA GTAGGTGCAC TGTTTGTCAC 30

(2) INFORMATION FOR SEQ ID NO:13:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 1434 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: Genomic DNA
- (iii) HYPOTHETICAL: NO
- (iv) ANTI-SENSE: NO
- (v) FRAGMENT TYPE:
- (vi) ORIGINAL SOURCE:

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:13:

CCTCCACGCA CGTTGTGATA TGTAGATGAT AATCATTATC AGAGCAGCGT TGGGGGATAA 60

TGTCGACATT	TCCACTCCCA	ATGACGGTGA	TGTATAATGC	TCAAGTATTC	TCCTGCTTTT	120
TTACCACTAA	CTAGGAACTG	GGTTTGGCCT	TAATTCAGAC	AGCCTTGGCT	CTGTCTGGAC	180
AGGTCCAGAC	GA CTGACACC	ATTAACACTT	TGTCAGCCTC	AGTGA CTACA	GTCATAGATG	240
AACAGGCCTC	AGCTAATGTC	AAGATACAGA	GAGGTCTCAT	GCTGGTTAAT	CAACTCATAG	300
ATCTTGTCCA	GATACAAC TA	GATGTATTAT	GACAAATAAC	TCAGCAGGGA	TGTGAACAAA	360
AGTTTCCGGG	ATTGTGTGTT	ATTTCCATT C	AGTATGT TAA	ATTTACTAGG	ACAGCTAATT	420
TGTCAAAAAG	TCTTTTTCAG	TATATGTTAC	AGAATTGGAT	GGCTGAATTT	GAACAGATCC	480
TTCGGGAATT	GAGACTTCAG	GTCAACTCCA	CGCGCTTGGA	CCTGTCGCTG	ACCAAAGGAT	540
TACCCAATTG	GATCTCCTCA	GCATTTTCTT	TCTTTAAAAA	ATGGGTGGGA	TTAATATTAT	600
TTGGAGATAC	ACTTTGCTGT	GGATTAGTGT	TGCTTCTTTG	ATTGGTCTGT	AAGCTTAAGG	660
CCCAAACTAG	GAGAGACAAG	GTGGTTATTG	CCCAGGCGCT	TGCAGGACTA	GAACATGGAG	720
CTTCCCCTGA	TATATGGTTA	TCTATGCTTA	GGCAATAGGT	CGCTGGCCAC	TCAGCTCTTA	780
TATCCCACGA	GGCTAGTCTC	ATTGTACGGG	ATAGAGTGAG	TGTGCTTCAG	CAGCCCGAGA	840
GAGTTGCAAG	GCTAAGCACT	GCAATGGAAA	GGCTCTGCGG	CATATA GTG	CCTATTCTAG	900
GGGGACATGT	CATCTTTCAT	GAAGGTTTCA	TGTCCTAGTT	CCCTTCCCCC	AGGCAAAACG	960
ACACGGGAGT	AGGTCAGGGT	TGCTCTGGGT	AAAAGCCTGT	GAGCCTGGGA	GCTAATCCTG	1020
TACATGGCTC	CTTTACCTAC	ACACTGGGGA	TTTGACCTCT	ATCTCCACTC	TCATTAATAT	1080
GGGTGGCCTA	TTTGCTCTTA	TTAAAAGGAA	AGGGGGAGAT	GTTGGGAGCC	GCGCCACAT	1140
TCGCCGTTAC	AAGATGGCGC	TGACAGCTGT	GTTCTAAGTG	GTAACAAAAT	AATCTGCGCA	1200
TGTGCCGAGG	GTGGTCTTTC	ACTCCATGTG	TCTGCTTCTC	CCCGTGACGT	CAACTGGGCC	1260
GATGGGCTGC	AGCCAATCAG	GGAGTGACAC	GTCCTAGGCG	AAGGAGAATT	CTCCTTAATA	1320
GGGACGGGGT	TTCGTTCTCT	CTCTCTCTCT	TGCTTCTCTC	TCTTGCTTTT	TCGCTCTCTT	1380
GCTTCCCGTA	AAGTGATAAT	GATTATCATC	TACATATCAC	AACGTGCGTG	GAGG	1434

(2) INFORMATION FOR SEQ ID NO:14:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 1400 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: Genomic DNA
- (iii) HYPOTHETICAL: NO
- (iv) ANTI-SENSE: NO
- (v) FRAGMENT TYPE:
- (vi) ORIGINAL SOURCE:

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:14:

CCTCCACGCA	CGTTGTGATA	TGTAGATGAT	AATCATTATC	AGAGCAGCGT	TGGGGGATAA	60
TGTCGACATT	TCCACTCCCA	ATGACGGTGA	TGTATAATGC	TCAAGTATTC	TCCTGCTTTT	120
TTACCACTAA	CTAGGAACTG	GGTTTGGCCT	TAATTCAGAC	AGCCTTGGCT	CTGTCTGGAC	180
AGGTCCAGAT	ACA ACTAGAT	GTATTATGAC	AAATAACTCA	GCAGGGATGT	GAACAAAAGT	240
TTCCGGGATT	GCGTGT TATT	TCCATCCAGT	ATGTTAAATT	TACTAGGGCA	GCTAATTTGT	300
CAAAAAGTCT	TTTCCAGTAT	ATGTTACAGA	ATTGGATGGC	TGAATTTGAA	CAGATCCTTC	360
GGGAATTGAG	ACTTCAGGTC	AACTCCACGC	GCTTGGACCT	GTCCCTGACC	AAAGGATTAC	420
CCAATTGGAT	CTCCTCAGCA	TTTTCTTTCT	TTAAAAAATG	GGTGGGATTA	ATATTATTTG	480
GAGATACACT	TTGCTGTGGA	TTAGTGTTCG	TTCTTTGATT	GGTCTGTAAG	CTTAAGGCCC	540
AAACTAGGAG	AGACAAGGTG	GTTATTGCCC	AGGCGCTTGC	AGGACTAGAA	CATGGAGCTT	600
CCCCTGATAT	ATCTATGCTT	AGGCAATAGG	TCGCTGGCCA	CTCAGCTCTT	ATATCCCATG	660
AGGCTAGTCT	CATTGCACGG	GATAGAGTGA	GTGTGCTTCA	GCAGCCCGAG	AGAGTTGCAC	720
GGCTAAGCAC	TGCAATGGAA	AGGCTCTGCG	GCATATATGA	GCCTATTCTA	GGGAGACATG	780
TCATCTTTCA	AGAAGGTTGA	GTGTCCAAGT	GTCCTTCCTC	CAGGCAAAAC	GACACGGGAG	840
CAGGTCAGGG	TTGCTCTGGG	TAAAAGCCTG	TGAGCCTAAG	AGCTAATCCT	GTACATGGCT	900
CCTTTACCTA	CACACTGGGG	ATTTGACCTC	TATCTCCACT	CTCATTAATA	TGGGTGGCCT	960
ATTTGCTCTT	ATTAAAAGGA	AAGGGGGAGA	TGTTGGGAGC	CGCGCCCACA	TTCCGCCGTTA	1020
CAAGATGGCG	CTGACAGCTG	TGTTCTAAGT	GGTAAACAAA	TAATCTGCGC	ATGCGCCGAG	1080
GGTGGTTCTT	CACTCCATGT	GCTCTGCCTT	CCCCGTGACG	TCAACTCGGC	CGATGGGCTG	1140
CAGTCAATCA	GGGAGTGACA	CGTCCTAGGC	GAAGGAAAAT	TCTCCTTAAT	AGGGACGGGG	1200
TTTCGTTTTT	TCTCTCTCTT	GCTTCGCTCT	CTCTTGCTTC	TTGCTCTCTT	TTCTTGAAGA	1260
TGTAAGAATA	AAGCTTTTGC	GCAGAAGATT	CTGGTCTGTG	GTGTTCTTCC	TGGCCGGTCG	1320
TGAGAACGCG	TCTAATAACA	ATTGGTGCCG	AAACCCGGGT	GATAATGATT	ATCATCTACA	1380
TATCACAACG	TGCGTGGAGG					1400

(2) INFORMATION FOR SEQ ID NO:15:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 1369 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: Genomic DNA
- (iii) HYPOTHETICAL: NO
- (iv) ANTI-SENSE: NO
- (v) FRAGMENT TYPE:
- (vi) ORIGINAL SOURCE:
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:15:

CCTCCACGCA	CGTTGTGATA	TGTAGATGAT	AATCATTATC	ACTTTACGGG	TCCTTTCAC	60
ACAACCTGCCA	CGAGGCCCG	TGCTCTGGTA	ATAGATCTTT	GCTGAAAAGG	CACACACATG	120
ACACATTACT	CAAGGTGGGC	TCATCTGAGC	TGCAGATTCA	GCTTAATATG	AATCTTGCCA	180
ATTGTGTGAA	ATCATAAATC	TTCAAAGTGA	CACCTCATTGC	CAGACACAGG	TGCCCCACCTT	240
TGGCATAATA	AACAAACACA	AATTATCTAT	TATATAAAGG	GTGTTAGAAG	ATGCTTTAGA	300
ATACAAATAA	ATCATGGTAG	ATAACAGTAA	GTTGAGAGCT	TAAATTTAAT	AAAGTGATAT	360
ACCTAATAAA	AATTAAATTA	AGAAGGTGTG	AATATACTAC	AGTAGGTAAA	TTATTTTCATT	420
AATTTATTTT	CTTTCTTAAT	CCTTTATAAT	GTTTTCTGCT	ATTGTCAATT	GCACATCCAT	480
ATGTTCAATT	CTTCACTGTA	ATGAAGAAAT	GTAGTAAATA	TACTTTCCGA	ACAAGTTGTA	540
TCAAATATGT	TACACTTGAT	TCCGTGTGTT	ACTTATCATT	TTATTATTAT	ATTGATTGCA	600
TTCTTTCGTT	ACTTGATATT	ATTACAAGGT	ACATATTTAT	TCTCTCAGAT	CTTCATTATA	660
CTCTAACCAT	TTTATAACAT	ACTTTATTTA	TTCATTTCTT	ATGTGTGCTG	TGAGGCACAA	720
ATGCCAGAGA	GAACCTGAGC	AGATAAGAGG	ACAAATTGCA	AGAGTCAGTT	ACCTCCTGCT	780
GTCCTTGGA	AACTCAGGAT	CAAATTCAGG	TTGTCAGGCT	TGGCAGCATG	CACCTTTTAC	840
CAGTGCCCTC	ATCTTGCTAG	CCCTGAACAT	CAAGCTTTGC	AGACAGACAG	GCTACACTAA	900
GTGAACGGT	CATTCACAGC	ATGCATGGTG	ATTTATTGTT	ACTTTCTATT	CCATGCCTTT	960
ACTATTTCTA	CTAGGTGCTA	GCTAGTACTG	TATTTTCGAGA	TAGAAGTTAC	TGAAAGAAAA	1020
TTACATTGTT	TTCTATAGAT	CCTTGATACT	CTTTCAGCAG	ATATAGAGTT	TTAATCAGGT	1080
CCTAGACCC	TTCTTCACTC	TTATTAAATA	CTAAGTACAA	ATTAAGTTTA	TCCAAAACAG	1140
TACGGATGTT	GATTTTGTGC	AGTTCTACTA	TGATAATAGT	CTAGCTTCAT	AAATCTGACA	1200
CACTTATTGG	GAATGTTTTT	GTTAATAAAA	GATTCAGGTG	TTACTCTAGG	TCAAGAGAAT	1260
ATTAAACATC	AGTCCCAAAT	TACAAACTTC	AATAAAAGAT	TTGACTCTCC	AGTGGTGGCA	1320
ATATAAAGTG	ATAATGATTA	TCATCTACAT	ATCACAACGT	GCGTGGAGG		1369

(2) INFORMATION FOR SEQ ID NO:16:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 22118 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: Genomic DNA
- (iii) HYPOTHETICAL: NO
- (iv) ANTI-SENSE: NO
- (v) FRAGMENT TYPE:
- (vi) ORIGINAL SOURCE:

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:16:

GAATTCCTCCT	ATCCCTAATC	CAGATTGGTG	GAATAACTTG	GTATAGATGT	TTGTGCATTA	60
AAAACCTGT	AGGATCTTCA	CTCTAGGTCA	CTGTTACAGCA	CTGGAACCTG	AATTGTGGCC	120
CTGAGTGATA	GGTCCTGGGA	CATATGCAGT	TCTGCACAGA	CAGACAGACA	GACAGACAGA	180
CAGACAGACA	GACAGACGTT	ACAAACAAAC	ACGTTGAGCC	GTGTGCCAAC	ACACACACAA	240
ACACCACTCT	GGCCATAATT	ATTGAGGACG	TTGATTTATT	ATTCTGTGTT	TGTGAGTCTG	300
TCTGTCTGTC	TGTCTGTCTG	TCTGTCTGTC	TATCAAACCA	AAAGAAACCA	AACAATTATG	360
CCTGCCTGCC	TGCCTGCCTG	CCTACACAGA	GAAATGATTT	CTTCAATCAA	TCTAAAACGA	420
CCTCCTAAGT	TTGCCTTTTT	TCTCTTTCTT	TCTCTTTTCT	TTTTTTCTTT	TCTTCTTCTT	480
TCCTTCCTTC	CTTCCTTCCT	TCCTTCCTTT	CTTTCTTTCT	TTCTTTCTTT	CTTACTTTCT	540
TTCTTTCCTT	CTTACATTTA	TTCTTTTCAT	ACATAGTTTC	TTAGTGTAAG	CATCCCTGAC	600
TGTCTTGAAG	ACACTTTGTA	GGCCTCAATC	CTGTAAGAGC	CTTCCTCTGC	TTTTTCAAATG	660
CTGGCATGAA	TGTTGTACCT	CACTATGACC	AGCTTAGTCT	TCAAGTCTGA	GTTACTGGAA	720
AGGAGTTCCA	AGAAGACTGG	TTATATTTTT	CATTTATTAT	TGCATTTTAA	TTAAAATTTA	780

ATTTACCAA	AAGAATTTAG	ACTGACCAAT	TCAGAGTCTG	CCGTTTAAAA	GCATAAGGAA	840
AAAGTAGGAG	AAAAACGTGA	GGCTGTCTGT	GGATGGTCTGA	GGCTGCTTTA	GGGAGCCTCG	900
TCACCATTCT	GCACTTGCAA	ACCGGGCCAC	TAGAACCCGG	TGAAGGGAGA	AACCAAAGCG	960
ACCTGGAAC	AATAGGTCAC	ATGAAGGCCA	GCCACCTCCA	TCTTGTTGTG	CGGGAGTTCA	1020
GTTAGCAGAC	AAGATGGCTG	CCATGCACAT	GTTGTCTTTC	AGCTTGGTGA	GGTCAAAGTA	1080
CAACCGAGTC	ACAGAACAAG	GAAGTATACA	CAGTGAGTTC	CAGGTCAGCC	AGAGTTTACA	1140
CAGAGAAACC	ACATCTTGAA	AAAAACAAAA	AAATAAATTA	AATAAATATA	ATTTAAAAAT	1200
TTAAAAATAG	CCGGGAGTGA	TGGCGCATGT	CTTTAATCCC	AGCTCTCTTC	AGGCAGAGAT	1260
GGGAGGATTT	CTGAGTTTGA	GGCCAGCCTG	GTCTGCAAAG	TGAGTTCCAG	GACAGTCAGG	1320
GCTATACAGA	GAACCCCTGT	CTTGAAAAC	AACTAAAT	AACTAACT	AAACTAAAAA	1380
AATATAAAAT	AAAAATTTTA	AAGAATTTTA	AAAAACTACA	GAAATCAAAC	ATAAGCCAC	1440
GAGATGGCAA	GTAAC TGCAA	TCATAGCAGA	AATATTATAC	ACACACACAC	ACACAGACTC	1500
TGTCATAAAA	TCCAATGTGC	CTTCATGATG	ATCAAATTTT	GATAGTCAGT	AATACTAGAA	1560
GAATCATATG	TCTGAAAATA	AAAGCCAGAA	CCTTTTCTGC	TTTTGTTTTT	TTTTGCCCCA	1620
AGATAGGGTT	TCTCTCAGTG	TATCCCTGCT	ATCCCTGCCT	GGAACCTCCT	TTGTAGGTTT	1680
GGTAGCCTCA	AACTCAGAGA	GGTCCTCTCT	GCCTGCCTGC	CTGCCTGCCT	GCCTGCCTGC	1740
CTGCCTGCCT	GCCTGCCTCA	CTTCTTCTGC	CACCCACACA	ACCGAGTCGA	ACCTAGGATC	1800
TTTATTTCTT	TCTCTTTCTC	TCTTCTTTCT	TTCTTCTTTT	CTTCTTTCTT	TTCTTTCTTT	1860
CTTCTTTTCT	TTCTTATTCA	ATTAGTTTTT	AATGTAAGTG	TGTGTTTGTG	CTCTATCTGC	1920
TGCCTATAGG	CCTGCTTGCC	AGGAGAGGGC	AACAGAACCT	AGGAGAAACC	ACCATGCAGC	1980
TCCTGAGAAT	AAGTGAAAAA	ACAACAAAAA	AAGGAAATTC	TAATCACATA	GAATGTAGAT	2040
ATATGCCGAG	GCTGTCTAGAG	TGCTTTTTAA	GGCTTAGTGT	AAGTAATGAA	AATTGTTGTG	2100
TGTCTTTTAT	CCAAACACAG	AAGAGAGGTG	GCTCGGCCCT	CATGCTCTGT	GTCTGCATGT	2160
AGACCAAGGT	GGCCTTGAAC	ACATTAATCT	GTCTGCCTCT	GCTTCCCTAA	TGCTGCGATT	2220
AAAGGCAATG	GCCACCACTG	CCCGGACTGA	TTTCTTCTTT	TTTTTTTTTT	TGGAAAAATAC	2280
CTTCTTTTCT	TTTTCTCTCT	CTCTTTCTTC	CTTCTTCTCT	TTCTTTCTAT	TCTTTTTTTT	2340
TTTCTTTTTT	TTTTTTTTTT	TTTTTTTTTAA	AATTTGCCCT	AGGTTAAAGG	TGTGCTCCAC	2400
AATTGCCTCA	GCTCTGCTCT	AATTCTCTTT	AAAAAAAAAAC	AAACAAAAAA	AAAACAAAAA	2460
CAGTATGTAT	GTATGTATAT	TTAGAAGAAA	TACTAATCCA	TTAATAACTC	TTTTTTCCTA	2520
AAATTCATGT	CATTCTTGTT	CCACAAAGTG	AGTTCCAGGA	CTTACCAGAG	AAACCCTGTG	2580
TTCAAATTTT	TGTGTTCAAG	GTCACCCTGG	CTTACAAAGT	GAGTTCCAAG	TCCGATAGGG	2640
CTACACAGAA	AAACCATATC	TCAGAAAAAA	AAAAAGTTCC	AAACACACAC	ACACACACAC	2700
ACACACACAC	ACACACACAC	ACACACACAC	ACACACACAG	CGCGCCGCGG	CGATGAGGGG	2760
AAGTCGTGCC	TAAAATAAAT	ATTTTTCTGG	CCAAAGTGAA	AGCAAATCAC	TATGAAGAGG	2820
TACTCCTAGA	AAAAATAAAT	ACAAACGGGC	TTTTTAATCA	TTCCAGCACT	GTTTTAATTT	2880
AACTCTGAAT	TTAGTCTTGG	AAAAGGGGGC	GGGTGTGGGT	GAGTGAGGGC	GAGCGAGCAG	2940
ACGGCGGGGG	GGGCGGGTGA	GTGGCCGGGC	GCGGTGGCAG	CGAGCACCAG	AAAACAACAA	3000
ACCCCAAGCG	GTAGACTGTT	TTAAAAATGA	GACCTAAATG	TGGTGGAACG	GAGGTCTGCG	3060
CCACCTCTCT	CTTCCACTGC	TTAGATGCTC	CCTTCCCCTT	ACTGTGCTCC	CTTCCCCTAA	3120
CTGTGCCTAA	CTGTGCCTGT	TCCCTCACCC	CGCTGATTCT	CCAGCGACGT	ACTTTGACTT	3180
CAAGAACGAT	TTTGCTGTGT	TTCACCGCTC	CCTGTCTATC	TTTCGTTTTT	GGGTGCCCGA	3240
GTCTAGCCCG	TTCTGCTATG	TCGGGCGGGA	CGATGGGGAG	CGTTTGTGCC	ACTCGGGAGA	3300
AGTGGTGGGT	GGGTACGCTG	CTCCGCTGCT	CGTGCCTGAG	TGCCGGAACC	TGAGCTCGGG	3360
AGACCCTCCG	GAGAGACAGA	ATGAGTGAGT	GAATGTGGCG	GCGCGTGACG	GATCTGTATT	3420
GGTTTGTATG	GTTGATCGAG	ACCATTGTCT	GGCGACACCT	AGTGGTGACA	AGTTTCGGGA	3480
ACGCTCCAGG	CCTCTCAGGT	TGGTGACACA	GGAGAGGGAA	GTGCCTGTGG	TGAGGCGACC	3540
AGGGTGACAG	GAGGCCGGGC	AAGCAGGGCG	GAGCGTCTCG	GAGATGGTGT	CGTGTTTAAG	3600
CAGGCTCTCT	AACAAGGAGG	TCGTACAGGG	AGATGGCCAA	AGCAGACCGA	GTTGCTGTAC	3660
GCCCTTTTGG	GAAAAATGCT	AGGGTTGGTG	GCAACGTTAC	TAGGTCGACC	AGAAGGCTTA	3720
AGTCTACCC	CCCCCCCCCT	TTTTTTTTTT	TTTCTTCCAG	AAGCCCTCTC	TTGTCCCCGT	3780
CACCGGGGGG	ACCGTACATC	TGAGGCCGAG	AGGACGCGAT	GGGCCCCGCT	TCCAAGCCGG	3840
TGTGGCTCGG	CCAGCTGGCG	CTTCGGGTCT	TTTTTTTTTT	TTTTTTTTTT	TTTTCTCTCA	3900
GAAGCCTTGT	CTGTCTGTGT	CACCGGGGGC	GCTGTACTTC	TGAGGCCGAG	AGGACGCGAT	3960
GGGCCCCGGC	TTCCAAGCCG	GTGTGGCTCG	GCCAGCTGGA	GCTTCGGGTC	TTTTTTTTTT	4020
TTTTTTTTTT	TTTTTTTCTC	CAGAAGCCTT	GTCTGTCTGT	GTCACCGGGG	GCGCTGTACT	4080
TCTGAGGCCG	AGAGGACGCG	ATGGGTCTGG	TTCCAAGCCG	ATGTGGCGGG	GCCAGCTGGA	4140
GCTTCGGGTT	TTTTTTTTTT	CTCCAGAAGC	CCTCTCTTGT	CCCCGTCAAC	GGGGGCGCTG	4200
TACTTCTGAG	GCCGAGAGGA	CGTGATGGGC	CCGGGTTCCA	GGCGGATGTC	GCCCGGTCAG	4260
CTGGAGCTTT	GGATCTTTTT	TTTTTTTTTT	CCTCCAGAAG	CCCTCTCTTG	TCCCCGTCAC	4320
CGGGGGCACC	TTACATCTGA	GGGCGAGAGG	ACGTGATGGG	TCCGGCTTCC	AAGCCGATGT	4380
GGCGGGGCGA	GCTGGAGCTT	CGGGTTTTTT	TTTTTTTCTC	CAGAAGCCCT	CTCTTGTCCT	4440
CGTCAACGGG	GGCGCTGTAC	TTCTGAGGCC	GAGAGGACGT	GATGGGCCCC	GGTTCCAGGC	4500
GGATGTGCGC	CGGTCAAGCTG	GAGCTTTGGA	TCATTTTTTT	TTTTCCCTCC	AGAAGCCCTC	4560
TCTTGTCCTC	GTCACCGGGG	GCACCGTACA	TCTGAGGCCG	AGAGGACACG	ATGGGCCTGT	4620
CTTCCAAGCC	GATGTGGCCC	GGCCAGCTGG	AGCTTCGGGT	CTTTTTTTTT	TTTTTTCCTC	4680
CAGAAGCCTT	GTCTGTCTGT	GTCACCGGGG	GCGCTGTACT	TCTGAGGCCG	AGAGGACGCG	4740
ATGGGCCCCG	TTCTCAAGCC	GGTGTGGCTC	GGCCAGCTGG	AGCTTCGGGT	CTTTTTTTTT	4800

TTTTTTTTTTT	TTCCTCCAGA	AACCTTGTCT	GTCGCTGTCA	CCCCGGGCGC	TTGTACTTCT	4860
GATGCCGAGA	GGACGCGATG	GGCCCGTCTT	CCAGGCCGAT	GTGGCCCGGT	CAGCTGGAGC	4920
TTTGGATCTT	TTTTTTTTTTT	TTTTCTCTCA	GAAGCCCTCT	CTTGTCCCCG	TCACCGGGGG	4980
CACCTTACAT	CTGAGGCCTA	GAGGACACGA	TGGGCCCCGG	TTCCAGGCCG	ATGTGGCCCC	5040
GTCAGCTGGA	GCTTTGGATC	TTTTTTTTTTT	TTTTCTTCCA	GAAGCCCTCT	TGCCCCCGTC	5100
ACCGGTGGCA	CTGTACATCT	GAGGCGGAGA	GGACATTATG	GGCCCGGCTT	CCAATCCGAT	5160
GTGGCCCGGT	CAGCTGGAGC	TTTGGATCTT	ATTTTTTTTTT	TAATTTTTTTC	TTCCAGAAGC	5220
CCTCTTGTCC	CTGTACCCGG	TGGCACGGTA	CATCTGAGGC	CGAGAGGACA	TTATGGGCCC	5280
GGCTTCCAGG	CCGATGTGGC	CCGGTCAGCT	GGAGCTTTGG	ATCTTTTTTTT	TTTTTTTTTCT	5340
TTTTTCTCTC	AGAAGCCCTC	TCTGTCCCTG	TCACCGGGGG	CCCTGTACGT	CTGAGGCCGA	5400
GGGAAAGCTA	TGGGCGCGGT	TTTCTTTTCAT	TGACCTGTCT	GTCTTATCAG	TTCTCCGGGT	5460
TGTCAGGGTC	GACCAGTTGT	TCCTTTGAGG	TCCGGTTCTT	TTCGTTATGG	GGTCATTTTTT	5520
GGGCCACCTC	CCCAGGTATG	ACTTCCAGGC	GTCGTTGCTC	GCCTGTCACT	TTCTCCCTTG	5580
TCTCTTTTAT	GCTTGTGATC	TTTTCTATCT	GTTTCTATTG	GACCTGGAGA	TAGGTACTGA	5640
CACGCTGTCC	TTTCCCTATT	AACACTAAAG	GACACTATAA	AGAGACCCTT	TCGATTTAAG	5700
GCTGTTTTGC	TTGTCCAGCC	TATTCTTTTTT	ACTGGCTTGG	GTCTGTCCGC	GTGCCTGAAG	5760
CTGTCCCCGA	GCCACGCTTC	CTGCTTTCCC	GGGCTTGCTG	CTTGCGTGTG	CTTGCTGTGG	5820
GCAGCTTGTG	ACAACGTGGC	GCTGTGACTT	TGCTGCGTGT	CAGACGTTTT	TCCCGATTTT	5880
CCCGAGGTGT	CGTTGTACAC	CCTGTCCCGG	TTGGAATGGT	GGAGCCAGCT	GTGGTTGAGG	5940
GCCACCTTAT	TTCCGGCTC	TTTTTTTTTTT	TTTTTTTTTCT	TTGGAGTCCC	GAACCTCCCG	6000
TCTTTTCTCT	TCCCGTCTTT	TCTTCCACAT	GCCTCCCGAG	TGCATTTCTT	TTTGTTTTTTT	6060
TTCTTTTTTTT	TTTTTTTTTTT	TTGGGGAGGT	GGAGAGTCCC	GAGTACTTCA	CTCCTGTCTG	6120
TGGTGTCCAA	GTGTTTCATG	CACGTGCCTC	CCGAGTGCAC	TTTTTTTTTGT	GGCAGTCGCT	6180
CGTTGTGTTT	TCTTGTCTTG	TGTCTGCCCC	TATCAGTAAC	TGTCTTGCCC	CGCGTGTAAG	6240
ACATTCCCTT	CTCGCTTGTT	TCTCCCGATT	GCGCGTCGTT	GCTCACTCTT	AGATCGATGT	6300
GGTGCTCCGG	AGTTCTCTTC	GGGCCAGGGC	CAAGCCGCGC	CAGGCGAGGG	ACGGACATTC	6360
ATGGCGAATG	GCGGCCGCTC	TTCTCGTTCT	GCCAGCGGGC	CCTCGTCTCT	CCACCCCATC	6420
CGTCTGCCGG	TGGTGTGTGG	AAGGCAGGGG	TGCGGCTCTC	CGGCCCGACG	CTGCCCGCGC	6480
CGCACTTTTC	TCAGTGGTTC	GCGTGGTCTT	TGTGGATGTG	TGAGGCGCCC	GGTTGTGCCC	6540
TCACGTGTTT	CACTTTGGTC	GTGTCTCGCT	TGACCATGTT	CCCAGAGTCG	GTGGATGTGG	6600
CCGGTGCGGT	TGCATACCCT	TCCCGTCTGG	TGTGTGCACG	CGCTGTTTCT	TGTAAGCGTC	6660
GAGGTGCTCC	TGGAGCGTTC	CAGGTTTGTG	TCCTAGGTGC	CTGCTTCTGA	GCTGGTGGTG	6720
GCGCTCCCCA	TTCCCTGGTG	TGCCTCCGGT	GCTCCGCTCT	GCTGTGTGCC	TTCCCGTTTG	6780
TGTCTGAGAA	GCCCGTGAGA	GGGGGGTCTG	GTAGAGAAAG	AGGGGCAAGA	CCCCCTTCT	6840
TCGTCCGGTG	AGGCGCCAC	CCCGCGACTA	GTACGCCTGT	GCGTAGGGCT	GGTGCTGAGC	6900
GGTCGCGGCT	GGGGTTGGAA	AGTTTCTCGA	GAGACTCATT	GCTTTCCCGT	GGGGAGCTTT	6960
GAGAGGCCTG	GCTTTCGGGG	GGGACCGGTT	GCAGGGTCTC	CCCTGTCCGC	GGATGCTCAG	7020
AATGCCCTTG	GAAGAGAACC	TTCTGTGTGC	CGCAGACCCC	CCCGCGCGGT	CGCCCGCGTG	7080
TTGGTCTTCT	GGTTTCCCTG	TGTGCTCGTC	GATCGATCCC	TCTCTCGGTG	GCCGGGGCTC	7140
GTCGGGGTTT	TGGTCCCGTC	CCGCCCTCAG	TGAGAAAGTT	TCCTTCTCTA	GCTATCTTCC	7200
GGAAAGGGTG	CGGGCTTCTT	ACGGTCTCGA	GGGGTCTCTC	CCGAATGGTC	CCCTGGAGGG	7260
CTCGCCCCCT	GACCGCCTCC	CGCGCGCGCA	GCGTTTGCTC	TCTCGTCTAC	CGCGGCCCGC	7320
GGCCTCCCCG	CTCCGAGTTC	GGGGAGGGAT	CACGCGGGG	AGAGCCTGTC	TGTCCTCTG	7380
CCGTGTGCTG	GGAGCATGTG	GCTCGGCTTG	TGTGGTTGGT	GGCTGGGGAG	AGGGCTCCGT	7440
GCACACCCCC	GCGTGCGCGT	ACTTTCCTCC	CCTCCTGAGG	GCCGCCGTGC	GGACGGGGTG	7500
TGGGTAGGCG	ACGGTGGGCT	CCCGGGTCCC	CACCCGTCTT	CCCGTGCCCT	ACCCGTGCCT	7560
TCCGTGCGGT	GCGTCCCTCT	CGCTCGCGTC	CACGACTTTG	GCCGCTCCCC	CGACGGCGGC	7620
CTGCGCCGCG	CGTGGTGCCT	GCTGTGTGCT	TCTCGGGCTG	TGTGGTTGTG	TCGCCTCGCC	7680
CCCCCTTCTC	CGCGGCAGCG	TTCCACGCG	TGGCGAAATC	GCGGGAGTCC	TCCTTCCCTT	7740
CCTCGGGGTC	GAGAGGGTCC	GTGTCTGGCG	TTGATTGATC	TCGCTCTCGG	GGACGGGACC	7800
GTTCTGTGGG	AGAACGGCTG	TTGGCCGCGT	CCGGCGCGAC	GTCGGACGTG	GGGACCCACT	7860
GCCGCTCGGG	GGTCTTCGTC	GGTAGGCATC	GGTGTGTGCG	CATCGGTCTC	TCTCTCGTGT	7920
CGGTGTGCGC	TCCTCGGGCT	CCCGGGGGGC	CGTCTGTGTT	CGGGTCTGGT	CGGCGTCTCA	7980
GGTGTGGTGG	GACTGCTCAG	GGGAGTGGTG	CAGTGTGATT	CCCGCCGGTT	TTGCCTCGCG	8040
TGCCCTGACC	GGTCCGACGC	CCGAGCGGTC	TCTCGGTCCC	TTGTGAGGAC	CCCCTTCCGG	8100
GAGGGGCCCG	TTTCGGCCGC	CCTTGCCGTC	GTCGCCGGCC	CTCGTTCTGC	TGTGTCTGTC	8160
CCCCCTCCCC	GCTCGCCGCA	GCCGGTCTTT	TTTCTCTCTT	CCCCCTCTCT	CCTCTGACTG	8220
ACCCGTGGCC	GTGCTGTGCG	ACCCCGCGCA	TGGGGCGCGC	CGGGCACGTA	CGCTCTCCGG	8280
CGGTCAACCG	GGTCTTGGGG	GGGGGCCGAG	GGGTAAGAAA	GTCGGCTCGG	CGGGCGGGAG	8340
GAGCTGTGGT	TTGGAGGGCG	TCCCGGCCCC	GCGGCCGTGG	CGGTGTCTTG	CGCGGTCTTG	8400
GAGAGGGCTG	CGTGCGAGGG	GAAAAGGTTG	CCCCCGGAGG	GCAAAGGGAA	AGAGGCTAGC	8460
AGTGGTCATT	GTCCCGACGG	TGTGGTGGTC	TCTTGGCCGA	GGTGCGTCTG	GGGGGCTCGT	8520
CCGGCCCTGT	CGTCCGTCGG	GAAGGCGCGT	GTTGGGGCCT	GCCGGAGTGC	CGAGGTGGGT	8580
ACCTTGCGCG	TGGGATTAAC	CCCGCGCGCG	TGTCCCGGTG	TGGCGGTGGG	GGCTCCGGTC	8640
GATGTCTACC	TCCCTCTCCC	CGAGGTCTCA	GGCCTTCTCC	GCGCGGGCTC	TCGGCCCTCC	8700
CCTCGTTCCT	CCCTCTCGCG	GGGTTCAAGT	CGCTCGTCTG	CCTCCCTCCG	TCCGTCTTCT	8760
CATCTCTCGC	GCAATGGCGC	CGCCCGAGTT	CACGGTGGGT	TCGTCCCTCC	CCTCCGCTTC	8820

TCGCCGGGGG	CTGGCCGCTG	TCCGGTCTCT	CCTGCCCGAC	CCCCGTTGGC	GTGGTCTTCT	8880
CTCGCCGGCT	TCGCGGACTC	CTGGCTTCGC	CCGGAGGGTC	AGGGGGCTTC	CCGGTTCCCC	8940
GACGTTGCGC	CTCGCTGCTG	TGTGCTTGGG	GGGGGCCCGC	TGCGGCCTCC	GCCCGCCCGT	9000
GAGCCCTGCG	CGCACCCGCC	GGTGTGCGGT	TTCGCGCCGC	GGTCAGTTGG	GCCCTGGCGT	9060
TGTGTGCGGT	CGGGAGCGTG	TCCGCCTCGC	GGCGGCTAGA	CGCGGGTGTC	GCCGGGCTCC	9120
GACGGGTGGC	CTATCCAGGG	CTCGCCCCCG	CCGACCCCGG	CCTGCCCGTC	CCGGTGGTGG	9180
TCGTTGGTGT	GGGGAGTGAA	TGGTGCTACC	GGTCATTCCC	TCCCGCGTGG	TTTGA CTGTC	9240
TCGCCGGTGT	CGCGCTTCTC	TTTCCGCCAA	CCCCACGCC	AACCCACCAC	CCTGCTCTCC	9300
CGGCCCGGTG	CGGTCGACGT	TCCGGCTCTC	CCGATGCCGA	GGGGTTCGGG	ATTTGTGCCG	9360
GGGACGGAGG	GGAGAGCGGG	TAAGAGAGGT	GTCGGAGAGC	TGTCCCGGGG	CGACGCTCGG	9420
GTTGGCTTTG	CCGCGTGCGT	GTGCTCGCGG	ACGGGTTTTG	TCGGACCCCG	ACGGGGTCGG	9480
TCCGGCCGCA	TGCAC TCTCC	CGTTCCGCGC	GAGCGCCCGC	CCGGCTCACC	CCCGGTTTGT	9540
CCTCCCGCGA	GGCTCTCCGC	CGCCGCCCGC	TCCTCCTCCT	CTCTCGCGCT	CTCTGTCCCG	9600
CCTGGTCCTG	TCCCACCCCG	GACGCTCCGC	TGCGCTTCC	TTACCTGGTT	GATCCTGCCA	9660
GGTAGCATAT	GCTTGTCTCA	AAGATTAAGC	CATGCATGTC	TAAGTACGCA	CGGCCGGTAC	9720
AGTGAAACTG	CGAATGGCTC	ATTAAATCAG	TTATGGTTCC	TTTGGTTCGCT	CGCTCCTCTC	9780
CTACTTGGAT	AACTGTGGTA	ATTCTAGAGC	TAATACATGC	CGACGGGCGC	TGACCCCCCT	9840
TCCCGGGGGG	GGATGCGTGC	ATTTATCAGA	TCAAAACCAA	CCCGGTGAGC	TCCCTCCCGG	9900
CTCCGGCCCG	GGGTCGGGCG	CCGGCGGCTT	GGTGACTCTA	GATAACCTCG	GGCCGATCGC	9960
ACGCCCCCGG	TGGCGGCGAC	GACCCATTCC	AACGCTGCGC	CTATCAACTT	TCGATGGTAG	10020
TCGCCGTGCC	TACCATGGTG	ACCACGGGTG	ACGGGGAATC	AGGGTTCGAT	TCCGGAGAGG	10080
GAGCCTGAGA	AACGGCTACC	ACATCCAAGG	AAGGCAGCAG	GCGCGCAAAT	TACCCACTCC	10140
CGACCCGGGG	AGGTAGTGAC	GAAAAATAAC	AATACAGGAC	TCTTTCGAGG	CCCTGTAATT	10200
GGAATGAGTC	CAC TTTAAAT	CCTTTAACGA	GGATCCATTG	GAGGGCAAGT	CTGGTGCCAG	10260
CAGCCGCGGT	AATTCCAGCT	CCAATAGCGT	ATATTAAAGT	TGCTGCAAGT	AAAAAGCTCG	10320
TAGTTGGATC	TTGGGAGCGG	GCGGGCGGTC	CGCCGCTAGA	CGAGTCACCG	CCCGTCCCCG	10380
CCCCTTGCCT	CTCGGCGCCC	CCTCGATGCT	CCTAGCTGAG	TGTCCCGCGG	GGCCCGAAGC	10440
GTTTACTTTG	AAAAAATTAG	AGTGTTCAAA	GCAGGCCCGA	GCCGCTTGGA	TACCGCAGCT	10500
AGGAATAATG	GAATAGGACC	GCGGTTCTAT	TTTGTGTGTT	TTGGAAGTGC	AGGCCATGAT	10560
TAAGAGGGAC	GGCCGGGGGC	ATTCTGATTG	CGCCGCTAGA	GGTGAAATTC	TTGGACCGGC	10620
GCAAGACGGA	CCAGAGCGAA	AGCATTGTCC	AAGAATGTTT	TCATTAATCA	AGAACGAAAG	10680
TCGGAGGTTT	GAAGACGATC	AGATACCGTC	GTAGTTCCGA	CCATAAACGA	TGCCGACTGG	10740
CGATGCGGCG	GCGTTATTCC	CATGACCCGC	CGGGCAGCTT	CCGGGAAACC	AAAGTCTTTG	10800
GGTTCCGGGG	GGAGTATGGT	TGCAAAGCTG	AAACTTAAAG	GAATTGACGG	AAGGCGACCA	10860
CCAGGAGTGG	GCCTGCGGCT	TAATTTGACT	CAACACGGGA	AACCTCACCC	AGCCCGGACA	10920
CGGACAGGAT	TGACAGATTG	ATAGCTCTTT	CTCGATTCCG	TGGGTGGTGG	TGCATGGCCG	10980
TTCTTAGTTG	GTGGAGCGAT	TTGTCTGGTT	AATTCCGATA	ACGAACGAGA	CTCTGGCATG	11040
CTAACTAGTT	ACGCGACCCC	CGAGCGGTCC	GCGTCCCCCA	ACTTCTTAGA	GGGACAAGTG	11100
GCGTTAGGCC	ACCCAGAGAT	GAGCAATAAC	AGGTCTGTGA	TGCCCTTAGA	TGTCACGGGC	11160
TGCACGCGCG	CTACACTGAC	TGGCTCAGCG	TGTGCTTACC	CTGCGCCGGC	AGGCGCGGGT	11220
AACCCGTTGA	ACCCCATTCG	TGATGGGGAT	CGGGGATTGC	AATTATTCCC	CATGAACGAG	11280
GAATTCCCAG	TAAGTGCGGG	TCATAAGCTT	GCGTTGATTA	AGTCCCTGCC	CTTTGTACAC	11340
ACCGCCCGTC	GCTACTACCG	ATTGGATGGT	TTAGTGAGGC	CCTCGGATCG	GCCCGGCCGG	11400
GGTCGGCCCA	CGGCCCTGGC	GGAGCGCTGA	GAAGACGGTC	GAACCTGACT	ATCTAGAGGA	11460
AGTAAAAGTC	GTAACAAGGT	TTCCGTAGGT	GAACCTGCGG	AAGGATCATT	AAACGGGAGA	11520
CTGTGGAGGA	GCGGCGGCGT	GGCCCGCTCT	CCCCGTCTTG	TGTGTGTCTT	CGCCGGGAGG	11580
CGCGTGCGTC	CCGGGTCCCG	TCGCCCCGCT	GTGGAGCGAG	GTGCTGAGAG	TGAGGTGAGA	11640
GAAGGGGTGG	GTGGGGTCCG	TCTGGGTCCG	TCTGGGACCG	CCTCCGATTG	CCCCTCCCCC	11700
TCCCCTCTCC	CTCGTCCGGC	TCTGACCTCG	CCACCTTACC	GCGGCGGCGG	CTGCTCGCGG	11760
GCGTCTTGCC	TCTTTCCCGT	CCGGCTCTTC	CGTGTCTACG	AGGGGCGGTA	CGTCGTTACG	11820
GGTTTPTGAC	CCGTCCCGGG	GGCGTTCCGT	CGTCGGGGCG	CGCGCTTTGC	TCTCCCGGCA	11880
CCCATCCCCG	CCGCGGCTCT	GGCTTTTCTA	CGTTGGCTGG	GGCGGTTGTC	GCGTGTGGGG	11940
GGATGTGAGT	GTCGCGTGTG	GGCTCGCCCC	TCCCGATGCC	ACGCTTTTCT	GGCTCTCGCGT	12000
GTCCTCCCCG	CTCCTGTCCC	GGGTACCTAG	CTGCTCGGTT	CCGCGCGCGA	GGTTTAAGGA	12060
CCCCGGGGGG	GTCGCCCTGC	CGCCCCCAGG	GTCGGGGGGC	GGTGGGGCCC	GTAGGGAAGT	12120
CGGTGCTTCG	GGCGGCTCTC	CCTCAGACTC	CATGACCCTC	CTCCCCCGCG	TGCCCGCGTT	12180
CCCGAGGCGG	CGGTGCTGTG	GGGGGGTGGA	TGTCTGGAGC	CCCCTCGGGC	GCCGTGGGGG	12240
CCCGAGCCGC	GCGCGCGGCT	TGCCCGATTG	CCCGGGGTCC	GTCCGTGTCGG	GTCGGGTCTCGT	12300
GGGTTCCCGT	GTCGTTCCCG	TGTTTTTCCG	CTCCCGACCC	TTTTTTTTTTC	CTCCCCCCCCA	12360
CACGTGTCTC	GTTTCGTTCC	TGCTGGCCGG	CCTGAGGCTA	CCCCTCGGTC	CATCTGTTCT	12420
CCTCTCTCTC	CGGGGAGAGG	AGGGCGGTGG	TGCTGGGGGG	ACTGTGCCGT	CGTCAGCACC	12480
CGTGAGTTCG	CTCACACCCG	AAATACCGAT	ACGACTCTTA	GCGGTGGATC	ACTCGGCTCG	12540
TGCGTCCGATG	AAGAACGCAG	CTAGCTCGGA	GAATTAATGT	GAATTGCAGG	ACACATTGAT	12600
CATCGACACT	TCGAACGCAC	TTGCGGCCCC	GGGTTCTCTC	CGGGGCTACG	CCTGTCTGAG	12660
CGTCGGTTGA	CGATCAATCG	CGTCACCCGC	TGCGGTGGGT	GCTGCGCGGC	TGGGAGTTTG	12720
CTCGCAGGGC	CAACCCCCCA	ACCCGGGTCC	GGCCCTCCGT	CTCCCGAAGT	TCAGACGTGT	12780
GGGCGGTTGT	CGGTGTGGCG	CGCGCGCCCC	CGTCGCGGAG	CCTGGTCTCC	CCCGCGCATC	12840

CGCGCTCGCG	GCTTCTTCCC	GCTCCGCCGT	TCCCGCCCTC	GCCCGTGCAC	CCCGGTCTCG	12900
GCCTCGCGTC	GGCGCCTCCC	GGACCGCTGC	CTCACCAGTC	TTTCTCGGTC	CCGTGCCCCG	12960
TGGGAACCCA	CCGCGCCCCC	GTGGCGCCCC	GGGGTGGGCG	CGTCCGCATC	TGCTCTGGTC	13020
GAGGTTGGCG	GTTGAGGGTG	TGCGTGCGCC	GAGGTGGTGG	TCGGTCCCCC	GCGGCCGCGG	13080
GGTTGTGCGG	GTGGCGGTGC	ACGAGGGCCG	GTCCGGTCGC	TGCGGTGGTT	GTCTGTGTGT	13140
GTTTGGGTCT	TGCGCTGGGG	GAGGCGGGGT	CGACCGCTCG	CGGGGTGGC	GCGGTGCGCC	13200
GGCGCCGCGC	ACCCTCCGGC	TTGTGTGGAG	GGAGAGCGAG	GGCGAGAACG	GAGAGAGGTG	13260
GTATCCCCGG	TGGCGTTGCG	AGGGAGGGTT	TGGCGTCCCC	CGTCCGTCCG	TCCCTCCCTC	13320
CCTCGGTGGG	CGCCTTCGCG	CCGCACGCGG	CCGCTAGGGG	CGGTGCGGGC	CCGTGGCCCC	13380
CGTGGCTCTT	CTTCTGTCTC	GCTTCTCCTT	CACCCGGGCG	GTACCCGCTC	CGGCGCCGGC	13440
CCGCGGGACG	CCGCGGCGTC	CGTGCGCCGA	TGCGAGTCAC	CCCCGGGTGT	TGCGAGTTCTG	13500
GGGAGGGAGA	GGGCCTCGCT	GACCCGTTGC	GTCCCGGCTT	CCCTGGGGGG	GACCCGGCGT	13560
CTGTGGGCTG	TGCGTCCCCG	GGGTTGCGTG	TGAGTAAGAT	CCTCCACCCC	CGCCGCCCTC	13620
CCCTCCCGCC	GGCCTCTCGG	GGACCCCTTG	AGACGGTTCTG	CCGGCTCGTC	CTCCCGTGCC	13680
GCCGGGTGCC	GTCTCTTTTC	CGCCCGCCTC	CTCGCTCTCT	TCTTCCCGCG	GCTGGGCGCG	13740
TGTCCCCCCT	TTCTGACCGC	GACCTCAGAT	CAGACGTGGC	GACCCGCTGA	ATTTAAGCAT	13800
ATTAGTCAGC	GGAGGAAAAG	AAACTAACCA	GGATTCCCTC	AGTAACGGCG	AGTGAACAGG	13860
GAAGAGCCCA	GCGCCGAATC	CCCGCCGCGC	GTGCGGCGGT	GGGAAATGTG	GCGTACGGAA	13920
GACCCACTGC	CCGGCGCCGC	TGCTGGGGGG	CCCAAGTCCT	TCTGATCGAG	GCCCAGCCCC	13980
TGGACGGTGT	GAGGCCGGTA	GCGGCCCGCG	CGCGCCGGG	TCGGGTCTTC	CCGAGATCGG	14040
GTTGCTTGGG	AATGCAGCCC	AAAGCGGGTG	GTAAACTCCA	TCTAAGGCTA	AATACCGGCA	14100
CGAGACCGAT	AGTCAACAAG	TACCGTAAGG	GAAAGTTGAA	AAGAACTTTG	AAGAGAGAGT	14160
TCAAGAGGGC	GTGAAACCGT	TAAGAGGTAA	ACGGGTGGGG	TCCGCGCAGT	CCGCCCGGAG	14220
GATTCAACCC	GGCGGCGCGC	GTCCGGCCGT	GCCCGGTGGT	CCCGGCGGAT	CTTTCCCGCT	14280
CCCGGTTCCCT	CCCGACCCCT	CCACCCGCGC	GTCTTTCCCT	TCTTCTCTCC	CGCGTCCGGC	14340
GCCTCCGGCG	GCGGGCGCGG	GGGGTGGTGT	GGTGGTGGCG	GCGGGGCGGG	GCCGGGGGTG	14400
GGGTCCGGCG	GGGACCGCCC	CCGGCCGCGC	ACCGGCCGCC	GCCGGGCGCA	CTTCCACCGT	14460
GGCGGTGCGC	CGCGACCGGC	TCCGGGACCG	CCGGGAAGGC	CCGGTGGGGA	AGGTGGCTCG	14520
GGGGGGGCGG	CGCGTCTCAG	GGCGCGCCGA	ACCACCTCAC	CCCGAGTGTT	ACAGCCCTCC	14580
GGCCGCGCTT	TCGCCGAATC	CCGGGGCCGA	GGAAGCCAGA	TACCCGTCCG	CGCGCTCTCC	14640
CTCTCCCCCC	GTCCGCCTCC	CGGGCGGGCG	TGGGGTGGG	GGCCGGGCCG	CCCCTCCAC	14700
GGCGCGACCG	CTCTCCACCC	CCCTCCCGTC	GCCTCTCTCG	GGGCCCGGTG	GGGGGCGGGG	14760
CGGACTGTCC	CCAGTGCGCC	CCGGGCGTCG	TCGCGCCGTC	GGGTCCCGGG	GGGACCGTCG	14820
GTCACGGTTC	TCCCGACGAA	CGCGGTCGCG	CGGGTTCGCG	GGCGATGTCTG	GCTACCCACC	14880
CGACCCGTCT	TGAAACACGG	ACCAAGGAGT	CTAACGCGTG	CGCGAGTCAG	GGGCTCGTCC	14940
GAAAGCCGCC	GTGGCGCAAT	GAAGGTGAAG	GGCCCCGCC	GGGGGCCCGA	GGTGGGATCC	15000
CGAGGCCCTCT	CCAGTCCGCC	GAGGGCGCAC	CACCGGCCCG	TCTCGCCCGC	CGCGCCGGGG	15060
AGGTGGAGCA	CGAGCGTACG	CGTTAGGACC	CGAAAGATGG	TGAACTATGC	TTGGGCAGGG	15120
CGAAGCCAGA	GGAAACTCTG	GTGGAGGTCC	GTAGCGGTCC	TGACGTGCAA	ATCGGTCTGC	15180
CGACCTGGGT	ATAGGGGCGA	AAGACTAATC	GAACCATCTA	GTAGCTGGTT	CCCTCCGAAG	15240
TTTCCCTCAG	GATAGCTGGC	GCTCTCGCTC	CCGACGTACG	CAGTTTTATC	CGGTAAAGCG	15300
AATGATTAGA	GGTCTTGGGG	CCGAAACGAT	CTCAACCTAT	TCTCAAACCT	TAAATGGGTA	15360
AGAAGCCCGG	CTCGTGGCG	TGGAGCCGGG	CGTGGAATGC	GAGTGCCTAG	TGGGCCACTT	15420
TTGGTAAGCA	GAACCTGGCG	TGCGGGATGA	ACCGAACGCC	GGGTTAAGGC	GCCCGCTGCC	15480
GACGCTCATC	AGACCCCGA	AAAGGTGTTG	GTTGATATAG	ACAGCAGGAC	GGTGGCCATG	15540
GAAGTCGGAA	TCCGCTAAGG	AGTGTGTAAC	AACTCACCTG	CCGAATCAAC	TAGCCCTGAA	15600
AATGGATGGC	GCTGGAGCGT	CGGGCCCGA	CCCGGCCGTC	GCCGCACTCG	GAACGGAACG	15660
GGACGGGAGC	GGCCGCGGGT	GCGCGTCTCT	CGGGGTCGGG	GGTGCGTGGC	GGGGGCCCGT	15720
CCCCCGCCTC	CCCTCCGCGC	GCCGGGTTTC	CCCCCGCGGC	GTGCGGCCCC	GCGGAGCCTA	15780
CGCCGCGACG	AGTAGGAGGG	CCGCTGCGGT	GAGCCTTGAA	GCCTAGGGCG	CGGGCCCGGG	15840
TGGAGCCGCC	GCAGGTGCAG	ATCTTGGTGG	TAGTAGCAAA	TATTCAAACG	AGAACTTTGA	15900
AGGCCGAAGT	GGAGAAGGGT	TCCATGTGAA	CAGCAGTTGA	ACATGGGTCA	GTCCGGTCTG	15960
AGAGATGGGC	GAGTGCCGTT	CCGAAGGGAC	GGGCGATGGC	CTCCGTTGCC	CTCGGCCGAT	16020
CGAAAGGGAG	TCGGGTTTCAG	ATCCCCGAAT	CCGAGTGGC	GGAGATGGGC	GCCGCGAGGC	16080
CAGTGCGGTA	ACGCGACCGA	TCCCGGAGAA	GCCGGCGGGA	GGCCTCGGGG	AGAGTTCTCT	16140
TTTCTTTGTG	AAGGGCAGGG	CGCCCTGGAA	TGGGTTGCGC	CCGAGAGAGG	GGCCCGTGCC	16200
TTGGAAAAGC	TCGCGGTTCC	GGCGGCGTCC	GGTAGCTCT	CGCTGGCCCT	TGAAAATCCG	16260
GGGGAGAGGG	TGTAAATCTC	GCGCCGGGCC	GTACCCATAT	CCGCAGCAGG	TCTCCAAGGT	16320
GAACAGCCTC	TGGCATGTTG	GAACAATGTA	GGTAAGGGAA	GTCGGCAAGC	CGATCCGTA	16380
ACTTCCGGAT	AAGGATTGGC	TCTAAGGGCT	GGGTGCGTCC	GGCTGGGGCG	CGAAGCGGGG	16440
CTGGGCGCGC	GCCGCGGCTG	GACGAGGCGC	CGCCGCCCTC	TCCCACGTCC	GGGGAGACCC	16500
CCCGTCTTTT	CGCCCGGGC	CCGCCCTCCC	CTCTTCCCCC	CGGGGCCCCG	TCGTCCCCCG	16560
CGTCGTGCGC	ACCTCTCTTC	CCCCCTCCTT	CTTCCCGTCG	GGGGGCGGGT	CGGGGCTCGG	16620
CGCGCGGCGC	GGGCTCCGGG	GCGGCGGGTC	CAACCCCGCG	GGGGTTCCGG	AGCGGGAGGA	16680
ACCAGCGGTC	CCCGGTGGGG	CGGGGGGCCC	GGACACTCGG	GGGGCCGGCG	GCGGCGGCGA	16740
CTCTGGACGC	GAGCCGGGCC	CTTCCCGTGG	ATCGCCTCAG	CTGCGGCGGG	CGTCGCGGCC	16800
GCTCCCGGGG	AGCCCGCGCG	GTGCCGCGCG	GGGTCCCCCT	CCCCGCGGGC	CTCGCTCCAC	16860

CCCCCATCG	CCTCTCCCGA	GGTGCCTGGC	GGGGGCGGGC	GGGCGTGTCC	CGCGCGTGTG	16920
GGGGGAACCT	CCGCGTCGGT	GTTCCCCCGC	CGGGTCCGCC	CCCCGGGCGG	CGGTTTTCCG	16980
CGCGGCGCCC	CCGCCTCGGC	CGGCGCCTAG	CAGCCGACTT	AGAACTGGTG	CGGACCAGGG	17040
GAATCCGACT	GTTTAATTAA	AACAAAGCAT	CGCGAAGGCC	CGCGGCGGGT	GTTGACGCGA	17100
TGTGATTTCT	GCCCAGTGTCT	CTGAATGTCA	AAGTGAAGAA	ATTCAATGAA	GC CGGGGTAA	17160
ACGGCGGGAG	TAACATGAC	TCTCTTAAGG	TAGCCAAATG	CCTCGTCATC	TAATTAGTGA	17220
CGCGCATGAA	TGGATGAACG	AGATTCCAC	TGTCCCTACC	TACTATCCAG	CGAAACCACA	17280
GCCAAGGGAA	CGGGCTTGGC	GGAATCAGCG	GGGAAAGAAG	ACCCTGTTGA	GCTTGACTCT	17340
AGTCTGGCAC	GGTGAAGAGA	CATGAGAGGT	GTAGAATAAG	TGGGAGGCC	CCGGCGCCCC	17400
GCCCCGTCT	CGCGTCGGGG	TCGGGGCACG	CCGGCCTCGC	GGGCCGCCGG	TGAAATACCA	17460
CTACTCTCAT	CGTTTTTTCA	CTGACCCGGT	GAGGCGGGGG	GGCGAGCCCC	GAGGGGCTCT	17520
CGCTTCTGGC	GCCAAGCGTC	CGTCCCGCGC	GTGCGGGCGG	GCGCGACCCG	CTCCGGGGAC	17580
AGTGCCAGGT	GGGGAGTTTG	ACTGGGGCGG	TACACCTGTC	AAACGGTAAC	GCAGGTGTCC	17640
TAAGGCGAGC	TCAGGGAGGA	CAGAAACCTC	CCGTGGAGCA	GAAAGGCAAA	AGCTCGCTTG	17700
ATCTTGATT	TCAGTACGAA	TACAGACCGT	GAAAGCGGGG	CCTCACGATC	CTTCTGACCT	17760
TTTGGGTTTT	AAGCAGGAGG	TGTCAGAAAA	GTTACCACAG	GGATAACTGG	CTTGTGGCGG	17820
CCAAGCGTTC	ATAGCGACGT	CGCTTTTTGA	TCCTTCGATG	TCGGCTCTTC	CTATCATTGT	17880
GAAGCAGAAT	TCACCAAGCG	TTGGATTGTT	CACCCACTAA	TAGGGAACGT	GAGCTGGGTT	17940
TAGACCGTCG	TGAGACAGGT	TAGTTTTACC	CTACTGATGA	TGTGTTGTTG	CCATGGTAAT	18000
CCTGCTCAGT	ACGAGAGGAA	CCGAGGTTTC	AGACATTGGA	TGTATGTGCT	TGGTGAAGGA	18060
GCCAATGGGG	CGAAGCTACC	ATCTGTGGGA	TTATGATAGA	ACGCCCTCTAA	GTCAGAATCC	18120
GCCCAAGCGG	AACGATACGG	CAGCGCCGAA	GGAGCCTCGG	TTGGCCCCGG	ATAGCCGGGT	18180
CCCCGTCCGT	CCCGCTCGGC	GGGGTCCCCG	CGTCGCCCCG	CGGCGGCGCG	GGGTCTCCCC	18240
CCGCCGGGGC	TCGGGACCGG	GGTCCGGTGC	GGAGAGCCGT	TCGTCTTGGG	TAAGCGGGTG	18300
CGGCCGGGAA	GGGGGCGGCC	CTCTCGCCCG	TCACGTTGAA	CGCACGTTTCG	TTGTGGAACCT	18360
GGCGCTAAAC	CATTCGTAGA	CGACCTGCTT	CTGGGTGCGG	GTTTCGTACG	TAGCAGAGCA	18420
GCTCCCTCGC	TGCGATCTAT	TGAAAGTCAG	CCCTCGACAC	AAGGGTTTGT	CTCTGCGGGC	18480
TTTCCCCTCG	CACGCCCCGT	CGCTCGCACG	CGACCGTGTC	GCCGCCCGGG	CGTCACGGGG	18540
GCGGTGCGCT	CGGCCCCCGC	GCGGTTGCCC	GAACGACCGT	GTGGTGTTTG	GGGGGGGGAT	18600
CGTCTTCTCC	TCCGTCTCCC	GAGGACGGTT	CGTTTCTCTT	TCCCCTTCCG	TCGCTCTCCT	18660
TGGGTGTGGG	AGCCTCGTGC	CGTCGCGACC	GCGGCCTGCC	GTCGCCCTGCC	GCCGCAGCCC	18720
CTTGCCCTCC	GGCCTTGGCC	AAGCCGGAGG	GCGGAGGAGG	GGGATCGGCG	GCGGCGGCGA	18780
CCGCGGCGCG	GTGACGCACG	GTGGGATCCC	CATCCTCGGC	GCGTCCGTCT	GGGACGGCCG	18840
GTTGGAGGGG	CGGGAGGGGT	TTTTCCCCTG	AACGCCCGCT	TCGGCGCCAG	GCCTCTGGCG	18900
GCCGGGGGGG	CGCTCTCTCC	GCCCGAGCAT	CCCCACTCCC	GCCCCCTCCT	TTGCGCGGCC	18960
GCGGCGGCGA	CGTGCGTACG	AGGGGAGGAT	GTCGCGGTGT	GGAGGCGGAG	AGGGTCCGGC	19020
GCGGCGCCTC	TTCCATTTTT	TCCCCCCCCA	CTTCGGAGGT	CGACCAGTAC	TCCGGGCGAC	19080
ACTTTGTTTT	TTTTTTTTTCC	CCCGATGCTG	GAGGTCGACC	AGATGTCCGA	AAGTGTCCCC	19140
CCCCCCCCC	CCCCCGGCG	CGGAGCGCGC	GGGCCACTCT	GGACTCTTTT	TTTTTTTTTT	19200
TTTTTTTTTT	TTAAATTCCT	GGAACCTTTA	GGTCGACCAG	TTGTCCGTCT	TTTACTCCTT	19260
CATATAGGTC	GACCAGTACT	CCGGGTGGTA	CTTTGTCTTT	TTCTGAAAAT	CCCAGAGGTC	19320
GACCAGATAT	CCGAAAGTCC	TCTCTTTCCC	TTTACTCTTC	CCCACAGCGA	TTCTCTTTTT	19380
TTTTTTTTTT	TTTGGTGTGC	CTCTTTTTGA	CTTATATACA	TGTAAATAGT	GTGTACGTTT	19440
ATATACTTAT	AGGAGGAGGT	CGACCATGAT	TCCGGGCGAC	ACTTTGTTTT	TTTTTTTTTT	19500
TCCACCGATG	ATGGAGGTCT	ACCAGATGTC	CGAAAGTGTC	CCGTCCCCCC	CCTCCCCCCC	19560
CCGCGACGCG	GCGGGCTCAC	TCTGGACTCT	TTTTTTTTTT	TTTTTTTTTT	TTTAAATTTT	19620
TGGAACCTTA	AGGTCGACCA	GTTGTCCGTC	TTTCACTCAT	TCATATAGGT	CGACCGGTGG	19680
TACTTTGTCT	TTTTCTGAAA	ATCGCAGAGG	TGCAGACAGT	GTCAGAAAGT	CTGGTGGTCT	19740
ATAAATTATC	TGATCTAGAT	TTGTTTTTCT	GTTTTTTCAGT	TTTGTGTTGT	TTTGTGTTGT	19800
TTTGTGTTGT	TTTGTGTTGT	TTTGTGTTGT	TTTGTGTTGT	TTTGTGTTGT	TTTGTGTTGT	19860
TTTGTGTTGT	GTTGTGTTGT	GTTGTGTTGT	GTTGGGTTGG	GTTGGGTTGG	GTTGGGTTGG	19920
GTTGGGTTGG	GTTGGGTTGT	GTTGTTTGGT	TTTGTGTTGT	TTGGTGTGTT	TGGTTTTGTG	19980
TTGTTTGCTG	TTGTTTTGTG	TTTTGCGGGT	CGAACAGTTG	TCCCTAACCG	AGTTTTTTTT	20040
TACACAAACA	TGCACTTTTT	T'AAAATAAAA	TTTTTAAAAA	AAATGCGAAA	ATCGACCAAT	20100
TATCCCTTTC	CTTCTCTCTC	TTTTTTAAAA	ATTTTCTTTG	TGTGTGTGTG	TGTGTGTGTG	20160
TGTGTGTGTG	TGCGTGTGTG	TGTGTGTGTG	CGTGCAGCGT	GCGCGCGCTC	GTTTTATAAA	20220
TACTTATAAT	AATAGGTCGC	CGGGTGGTGG	TAGCTTCCCG	GACTCCAGAG	GCAGAGGCAG	20280
GCAGACTTCT	GAGTTCGAGG	CCAGCCTGGT	CTACAGAGGA	ACCCTGTCTC	GAAAAATGAA	20340
AATAAATACA	TACATACATA	CATACATACA	TACATACATA	CATACATACA	TACATATGAG	20400
GTTGACCACT	TGTCAATCCT	TTAGAATTTT	GTTTTTAATT	AATGTGATAG	AGAGATAGAT	20460
AATAGATAGA	TGGATAGAGT	GATACAAATA	TAGGTTTTTT	TTTCAGTAAA	TATGAGGTTG	20520
ATTAACCACT	TTTCCCTTTT	TAGGTTTTTT	TTTTTTTCCC	CTGTCCATGT	GTTGTCCGGG	20580
ATTTGAACCT	AGGACCTGGG	CAGGTCAACT	GGAAAAACGT	TTTCTATAT	ATATAAATAG	20640
TGGTCTGTCT	GCTGTTTGTG	TGTTTGCTTG	CTTGCTTGCT	TGCTTGCTTG	CTTGCTTGCT	20700
TGCTTTTTTT	TTTCTTCTGA	GACAGTATTT	CTCTGTGTAA	CCTGGTGCCC	TGAAACTCAC	20760
TCTGTAGACC	AGCCTGGCCT	CAATCGAACT	CAGAAATCCT	CCTGCCTCTT	GTCTACCTCC	20820
CAATTTTGGA	GTAAGGTGTG	GCTACACCAC	TGCCTGGCAT	TATTATCATT	ATCATTATTA	20880

ATTTTATTAT	TAGACAGAAC	GAAATCAACT	AGTTGGTCCT	GTTTCGTAA	TTCATTTGAA	20940
ATTAGTTGGA	CCAATTAGTT	GGCTGGTTTG	GGAGGTTTCT	TTTGTTCCTG	ATTTGGGTGT	21000
TTGTGGGGCT	GGGGATCAGG	TATCTCAACG	GAATGCATGA	AGGTTAAGGT	GAGATGGCTC	21060
GATTTTTGTA	AAGATTACTT	TTCTTAGTCT	GAGGAAAAAA	TAAAAATAATA	TTGGGCTACG	21120
TTTCATTGCT	TCATTTCTAT	TTCTCTTTCT	TTCTTTCTTT	CTTTCAGATA	AGGAGGTCGG	21180
CCAGTTCCTC	CTGCCCTCTG	GAAGATGTAG	GCATTGCATT	GGGAAAAGCA	TTGTTTGAGA	21240
GATGTGCTAG	TGAACCAGAG	AGTTTGGATG	TCAAGCCGTA	TAATGTTTAT	TACAATATAG	21300
AAAAGTTCTA	ACAAAGTGAT	CTTTAACTTT	TTTTTTTTTT	TTTCTCCTTC	TACTTCTACT	21360
TGTTCTCACT	CTGCCACCAA	CGCGCTTTGT	ACATTGAATG	TGAGCTTTGT	TTTGCTTAAC	21420
AGACATATAT	TTTTTCTTTT	GGTTTTGCTT	GACATGGTTT	CCCTTTCTAT	CCGTGCAGGG	21480
TTCCAGACAG	GCCTTTTGAG	AATAAAATGG	GAGGCCAGAA	CCAAAGTCTT	TTGAATAAAG	21540
CACCACAAC	CTAACCTGTT	TGGCTGTTTT	CCTTCCCAAG	GCACAGATCT	TTCCAGCAT	21600
GGAAAAGCAT	GAGCAGTTG	TAGGACACAC	TAGACGAGAG	CACCAGATCT	CATTGTGGGT	21660
GGTTGTGAAC	CACCCACCAT	GTGGTTGCCT	GGGATTTGAA	CTCAGGATCT	TCAGAAGACG	21720
AGTCAGGGCT	CTAAACCGAT	GAGCCATCTC	TCCAGCCCTC	CTACATTCTT	TCTTAAGGCA	21780
TGAATGATCC	CAGCATGGGA	AGACAGTCTG	CCCTCTTTGT	GGTATATCAC	CATATACTCA	21840
ATAAAATAAT	GAAATGAATG	AAGTCTCCAC	GTATTTATTT	CTTCGAGCTA	TCTAAATTCT	21900
CTCACAGCAC	CTCCCCCTCC	CCCACACTGC	CTTTCTCCCT	ATGTTTGGGT	GGGGCTGGGG	21960
GAGGGGTGGG	GTGGGGGCAG	GGATCTGCAT	GTCTTCTTGC	AGGTCTGTGA	ACTATTGCG	22020
ATGGCCTGGT	TCTCTGAAC	GTTGAGCCTT	GTCTATCCAG	AGGCTGACTG	GCTAGTTTTT	22080
TACCTGAAGT	CCCTGAGTGA	TGATTTCCTT	GTGAATTC			22118

(2) INFORMATION FOR SEQ ID NO:17:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 42999 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: Genomic DNA
- (iii) HYPOTHETICAL: NO
- (iv) ANTI-SENSE: NO
- (v) FRAGMENT TYPE:
- (vi) ORIGINAL SOURCE:
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:17:

GCTGACACGC	TGTCCTCTGG	CGACCTGTCTG	TCGGAGAGGT	TGGGCCTCCG	GATGCGCGCG	60
GGGCTCTGGC	CTCACGGTGA	CCGGCTAGCC	GGCCGCGCTC	CTGCCTTGAG	CCGCCTGCCG	120
CGGCCCGCGG	GCCTGCTGTT	CTCTCGCGCG	TCCGAGCGTC	CCGACTCCCG	GTGCCGGCCC	180
GGGTCCGGGT	CTCTGACCCA	CCCCGGGGCG	GCGGGGAAGG	CGGCGAGGGC	CACCGTGCCC	240
CGTGCGCTCT	CCGCTGCGGG	CGCCCGGGCG	GCCGCACAAC	CCCACCCGCT	GGTCCCGTGC	300
CCTGCGTGTC	AGGCGTTTCT	GTCTCCGCGG	GGTTGTCCCG	CGCCCTTCC	CGCGAGTGCG	360
GGGTGGCCCG	AGCCGATCGG	CTCGCTGGCC	GGCCGGCCCT	CGCTCCCGGG	GGGCTCTTCG	420
ATCGATGTGG	TGACGTCTGT	CTCTCCCGGG	CCGGGTCCGA	GCCGCGACGG	GCGAGGGGCG	480
GACGTTCTGT	GCGAACGGGA	CCGTCTTTCT	CGTCCGCCCC	GCGCGGTCCC	CTCGTCTGCT	540
CCTCTCCCCG	CCCGCCGGCC	GGCGTGTGGG	AAGGCGTGGG	GTGCGGACCC	CGGCCCGACC	600
TCGCCGTCCC	GCCCCGCGCC	TTGCTTCCG	GGGTGCGGGC	CGGCGGGGTC	CTCTGACGCG	660
GCAGACAGCC	CTGCCTGTCT	CCTCCAGTGG	TTGTCTGACT	GCGGGCGGCC	CCCCTCCGCG	720
GCGGTGGGGG	TGCCGTCCCC	CCGGCCCCGT	GTGCTGCCCT	CTCGGGGGGG	GTTTGCGCGA	780
GCGTCCGGCT	CGCCTGGGCC	CTTGCGGTGC	TCCTGGAGCG	CTCCGGGTTG	TCCCTCAGGT	840
GCCCCAGGCC	GAACGGTGGT	GTGTCTGTTT	CGCCCCGGCG	GCCCCCTCCT	CCGGTCCGCC	900
CCGCGGTGTC	CGCGCGTGGG	TCCTGAGGGA	GCTCGTCCGT	GTGGGGTTTC	AGGCGGTTTG	960
AGTGAGACGA	GACGAGACGC	GCCCCCTCCA	CGCGGGGAAG	GGCGCCCCGC	TGCTCTCGGT	1020
GAGCGCACGT	CCCGTGCTCC	CCTCTGGCGG	GTGCGCGCGG	GCCGTGTGAG	CGATCGCGGT	1080
GGGTTCCGGC	CGGTGTGACG	CGTGCGCGCG	CCGGCCCGCG	AGGGGCTGCC	GTTCTGCCTC	1140
CGACCGGTTC	TGTGTGGGTT	GACTTCGGAG	CGCTCTTGCC	TCGGAAGGAA	GGAGGTGGGT	1200
GGACGGGGGG	GCCTGGTGGG	GTTGCGCGCA	CGCGCGCACC	GGCCGGGGCC	CCGCCCTGAA	1260
CGCGAACGCT	CGAGGTGGCC	GCGCGCAGGT	GTTTCTCTGT	ACCGCAGGGC	CCCCTCCCTT	1320
CCCCAGGCGT	CCCTCGGCGC	CTCTGCGGGC	CCGAGGAGGA	GCGGCTGGCG	GGTGGGGGGA	1380
GTGTGACCCA	CCCTCGGTGA	GAAAAGCCTT	CTCTAGCGAT	CTGAGAGGCG	TGCCTTGGGG	1440
GTACCGGATC	CCCCGGGGCG	CCGCCTCTGT	CTCTGCCCTC	GTTATGGTAG	CGCTGCCGTA	1500
GCGACCCGCT	CGCAGAGGAC	CCTCCTCCGC	TTCCCCCTCG	ACGGGGTTGG	GGGGGAGAAG	1560
CGAGGGTTCC	GCCGGCCACC	GCGGTGGTGG	CCGAGTGCGG	CTCGTCGCTT	ACTGTGGCCC	1620
GCGCCTCCCC	CTTCCGAGTC	GGGGGAGGAT	CCCGCCGGGC	CGGGCCCGGC	GCTCCCACCC	1680
AGCGGGTTGG	GACGCGGCGG	CCGGCGGGCG	GTGGGTGTGC	GCGCCCGGCG	CTCTGTCCGG	1740

CGCGTGACCC	CCTCCGTCCG	CGAGTCGGCT	CTCCGCCCGC	TCCCGTGCCG	AGTCGTGACC	1800
GGTGCCGACG	ACCGCGTTTG	CGTGGCACGG	GGTGGGGCCC	GCCTGGCCCT	GGGAAAAGCGT	1860
CCCACGGTGG	GGGCGCGCCG	GTCTCCCGBA	GCGGGACCGG	GTCGGAGGAT	GGACGAGAAT	1920
CACGAGCGAC	GGTGGTGGTG	GCGTGTCGGG	TTCGTGGCTG	CGGTGCTCC	GGGGCCCCCG	1980
GTGGCGGGGG	CCCGGGGCTC	GCGAGGCGGT	TCTCGGTGGG	GGCCGAGGGC	CGTCCGGCGT	2040
CCCAGGCGGG	GCGCCGCGGG	ACCGCCCTCG	TGTCTGTGGC	GGTGGGATCC	CGCGGCGGTG	2100
TTTTCTGGT	GGCCCGGCCG	TGCCTGAGGT	TTCTCCCCGA	GCCGCCGCTT	CTGCGGGCTC	2160
CCGGGTGCCC	TTGCCCTCGC	GGTCCCCGGC	CCTCGCCCGT	CTGTGCCCTC	TTCCCCGCCC	2220
GCCGCCCCGC	GATCCTCTTC	TTCCCCCCGA	GCGGCTCACC	GGCTTCACGT	CCGTGGGTGG	2280
CCCCGCCTGG	GACCGAACC	GGCACCGCCT	CGTGGGGCGC	CGCCGCCGGC	CACTGATCGG	2340
CCCGGCGTCC	GCGTCCCCCG	GCGCGCGCCT	TGGGGACCGG	GTCGGTGGCG	CGCCGCGTGG	2400
GGCCCGGTGG	GCTTCCCCGA	GGGTTCGGGG	GGTGGCGCTG	CGGCGCGTGC	GGGGGAGGAG	2460
ACGGTTCGGG	GGGACCGGCC	GCGGCTGCGG	CGGCGGCGGT	GGTGGGGGGA	GCCGCGGGGA	2520
TCGCCGAGGG	CCGGTCGGCC	GCCCCGGGTG	CCCCGCGGTG	CCGCCGGCGG	CGGTGAGGCC	2580
CCGCGCGTGT	GTCCCCGGCTG	CGGTGCGCCC	CGCTCGAGGG	GTCCCCGTGG	CGTCCCCCTC	2640
CCCGCCGGGC	GCCTTTCTCG	CGCCTTCCCC	GTCGCCCCCG	CCTCGCCCGT	GGTCTCTCGT	2700
CTTCTCCCCG	CCCGCTCTTC	CGAACC GG GT	CGGCGCGTCC	CCCGGGTGCG	CCTCGCTTCC	2760
CGGGCCTGCC	GCGGCCCTTC	CCCGAGGCGT	CCGTCCCCGG	CGTCGGCGTC	GGGGAGAGCC	2820
CGTCTCTCCC	GCGTGGCGTC	GCCCCGTTCG	GCGCGCGCGT	GCGCCCGAGC	GCGGCCCGGT	2880
GGTCCCTCCC	GGACAGGCGT	TCGTGCGACG	TGTGGCGTGG	GTCGACCTCC	GCCTTGCCGG	2940
TCGCTCGCCC	TCTCCCCGGG	TCGGGGGGTG	GCGCCCGGGC	CGGGGCCTCG	GCCCCGGTCC	3000
CTGCCTCCCG	TCCCGGGCGG	GGGCGGGCGC	GCCGGCCGGC	CTCGGTGCGC	CTCCCTTGGC	3060
CGTCGTGTGG	CGTGTGCCAC	CCCTGCGCCG	GCGCCCGCCG	GCGGGGCTCG	GAGCCGGGCT	3120
TCGGCCGGGC	CCCGGGCCCT	CGACCGGACC	GCGTGC CGCG	GCGCTGCGGC	CGCACGGCGC	3180
GACTGTCCCC	GGCCCGGGCA	CCGCGGTCCG	GCCTCTCGTC	GCCGCCCGGA	CGTCGGGGCC	3240
GCCCCGCGGG	GCGGGCGGAG	CGCCGTCCCC	GCCTCGCCGC	CGCCCGCGGG	CGCCGGCCGC	3300
GCGCGCGCGC	GCGTGGCCGC	CGGTCCCTCC	CGGCCGCCGG	GCGCGGGTCG	GGCCGTCCGC	3360
CTCCTCGCGG	GCGGGCGCGA	CGAAGAAGCG	TCGCGGGTCT	GTGGCGCGGG	GCCCCCGGTG	3420
GTCTGTTCGC	GTGGGGGGCG	GGTGGTTGGG	GCGTCCGGTT	CGCCGCGCCC	CGCCCCGGCC	3480
CCACCGGTCC	GCGCCGCGCG	CCCCGCGCCC	GCTCGCTCCC	TCCCGTCCCG	CCGTCCGCGG	3540
CCCGTCCGTC	CGTCCGTCCG	TCGTCCCTCT	CGCTTGCGGG	GCGCCGGGCC	CGTCTTCGCG	3600
AGGCCCCCCG	GCCGGCCGTC	CGGCCGCGTC	GGGGGCTCGC	CGCGCTCTAC	CTTACCTACC	3660
TGGTTGATCC	TGCCAGTAGC	ATATGCTTGT	CTCAAAGATT	AAGCCATGCA	TGTCTAAGTA	3720
CGCAGCGCCG	GTACAGTGAA	ACTGCGAATG	GCTCATTAAA	TCAGTTATGG	TTCTTTTGGT	3780
CGACTCGTCC	TCTCCTACTT	GGATAACTGT	GGTAATTCTA	GAGCTAATAC	ATGCCGACGG	3840
GCGCTGACCC	CCTTCGCGGG	GGGGATGCGT	GCATTTATCA	GATCAAAACC	AACCCGGTCA	3900
GCCCCCTCTC	GGCCCCGGCC	GGGGGGCGGG	CGCCGGCGGC	TTTGGTGACT	CTAGATAACC	3960
TCGGGCGCAT	CGCACGCCCC	CCGTGGCGGG	GACGACCCAT	TCGAACGTCT	GCCCTATCAA	4020
CTTTTCGATG	TAGTCGCGGT	GCCTACCATG	GTCAGCACGG	GTGACGGGGA	ATCAGGGTTC	4080
GATTCCGGAG	AGGAGGCCTG	AGAAACGGCT	ACCACATCCA	AGGAAGGCAG	CAGGCGCGCA	4140
AATTACCCAC	TCCCGACCCG	GGGAGGTAGT	GACGAAAAAT	AACAATACAG	GACTCTTTTC	4200
AGGCCCTGTA	ATTGGAATGA	GTCCACTTTA	AATCCTTTAA	CGAGGATCCA	TTGGAGGGCA	4260
AGTCTGGTGC	CAGCAGCCCG	GGTAATTCCA	GCTCCAATAG	CGTATATTAA	AGTTGCTGCA	4320
GTTAAAAAGC	TCGTAGTTGG	ATCTTGGGAG	CGGGCGGGCG	GTCCGCGCCG	AGGCGAGCCA	4380
CCGCCCGTCC	CCGCCCTTTG	CCTCTCGGCG	CCCCCTCGAT	GCTCTTAGCT	GAGTGTCCCC	4440
CGGGGCCCGA	AGCGTTTACT	TTGAAAAAAT	TAGAGTGTTT	AAAGCAGGCC	CGAGCCGCCCT	4500
GGATACCGCA	GCTAGGAATA	ATGGAATAGG	ACCGCGGTTT	TATTTTGTGG	GTTTTCGGAA	4560
CTGAGGCCAT	GATTAAGAGG	GACGGCCGGG	GGCATTCTGA	TTGCGCCGCT	AGAGGTGAAA	4620
TTCTTGGAAC	GGCGCAAGAC	GGACCAAGAG	GAAAGCATTT	GCCAAGAATG	TTTTCATTAA	4680
TCAAGAACGA	AAGTCGGAGG	TTCGAAGACG	ATCAGATACC	GTCGTAGTTC	CGACCATAAA	4740
CGATGCCGAC	CGGCGATGCG	GCGGCGTTAT	TCCCATGACC	CGCCGGGCAG	CTTCCGGGAA	4800
ACCAAAGTCT	TTGGGTTCCG	GGGGGAGTAT	GGTTGCAAA	CTGAACTTA	AAGGAATTGA	4860
CGGAAGGGCA	CCACCAAGGAG	TGGAGCCTGC	GGCTTAATTT	GACTCAACAC	GGGAAACCTC	4920
ACCCGGGCCG	GACACGGACA	GGATTGACAG	ATTGATAGCT	CTTTCTCGAT	TCCGTGGGTG	4980
GTGGTGCATG	GCCGTTCTTA	GTTGGTGGAG	CGATTTGTCT	GGTTAATTCC	GATAACGAAC	5040
GAGACTCTGG	CATGCTAACT	AGTTACGCGA	CCCCCGAGCG	GTCGGCGTCC	CCCAACTTCT	5100
TAGAGGGACA	AGTGGCGTTC	AGCCACCCGA	GATTGAGCAA	TAACAGGTCT	GTGATGCCCT	5160
TAGATGTCCG	GGGCTGCACG	GCGCTACAC	TGACTGGCTC	AGCGTGTGCC	TACCTTACGC	5220
CGGCAGGCGC	GGGTAACCCG	TTGAACCCCA	TTCGTGATGG	GGATCGGGGA	TTGCAATTAT	5280
TCCCCATGAA	CGAGGGAATT	CCCGAGTAAG	TGCGGGTCAT	AAGCTTGCGT	TGATTAAGTC	5340
CCTGCCCTTT	GTACACACCG	CCCGTCGCTA	CTACCGATTG	GATGGTTTAG	TGAGGCCCTC	5400
GGATCGGGCC	CGCCGGGGTC	GGCCACGGCC	CCTGGCGGAG	CGCTGAGAAG	ACGGTCGAAC	5460
TTGACTATCT	AGAGGAAGTA	AAAGTCGTAA	CAAGTTTTC	GTAGGTGAAC	GTCGCGAAGG	5520
ATCATTAACG	GAGCCCGGAG	GGCGAGGCC	GCGGCGGCGC	CGCCGCCGCC	GCGCGCTTCC	5580
CTCCGCACAC	CCACCCCCCC	ACCGCGACGC	GGCGCGTGCG	CGGGCGGGGC	CCGCGTGCCC	5640
GTTCGTTTCG	TCGCTCGTTC	GTTCCGCCGC	CGGCCCCGCC	GCCGCGAGAG	CCGAGAACTC	5700
GGGAGGGAGA	CGGGGGGGAG	AGAGAGAGAG	AGAGAGAGAG	AGAGAGAGAG	AGAGAGAGAA	5760

AGAAGGGCGT	GTCGTTGGTG	TGCGCGTGTC	GTGGGGCCCG	CGGGCGGCGG	GGAGCGGTCC	5820
CCGGCCGCGG	CCCCGACGAC	GTGGGTGTCT	GCGGGCGCGG	GGGCGGTTCT	CGGCGGCGTC	5880
GCGGCGGGTC	TGGGGGGGTC	TCGGTGCCCT	CCTCCCCGCC	GGGGCCCGTC	GTCCGGCCCC	5940
GCCGCGCCCG	CTCCCCGTCT	TCGGGGCCCG	CCGGATTCCC	GTCGCTCCCG	CCGCGCCGCT	6000
CCGCGCCGCC	GGGCACGGCC	CCGCTCGCTC	TCCCCGGCTC	TCCCGCTAGG	GCGTCTCGAG	6060
GGTCGGGGGG	CGACGACCGG	TCCCCTCCCC	CGCCTCCCTG	TCCGCCCCCC	CGCCGTCCAG	6120
GTACCTAGCG	CGTTCCGGCG	CGGAGGTTTA	AAGACCCCTT	GGGGGGATCG	CCCGTCCGCC	6180
CGTGGGTGCG	GGGCGGTGGT	GGGCCCCGCG	GGGAGTCCCG	TCGGGAGGGG	CCCGGCCCCCT	6240
CCCGCGCCTC	CACCGCGGAC	TCCGCTCCCC	GGCCGGGGCC	GCGCCGCGCG	CGCCGCGCGG	6300
GCGGCCGTCG	GGTGGGGGCT	TTACCCGGCG	GCCGTGCGCG	GCCTGCCGCG	CGTGTGGCGT	6360
GCGCCCCGCG	CCGTGGGGGC	GGGAACCCCC	GGGCGCCTGT	GGGGTGGTGT	CCGCGCTCGC	6420
CCCCCGCTGG	GCGGCGCGCG	CCTCCCCGTC	GTGTGAAACC	TTCCGACCCC	TCTCCGGAGT	6480
CCGGTCCCGT	TTGCTGTCTC	GTCTGGCCGG	CCTGAGGCAA	CCCCCTCTCC	TCTTGGGCGG	6540
GGGGGGCGGG	GGGACGTGCC	GCGCCAGGAA	GGGCCTCCTC	CCGGTGCGTC	GTCGGGAGCG	6600
CCCTCGCCAA	ATCGACCTCG	TACGACTCTT	AGCGGTGGAT	CACTCGGCTC	GTGCGTCGAT	6660
GAAGAACGCA	GCTAGCTGCG	AGAATTAATG	TGAATTGCAG	GACACATTGA	TCATCGACAC	6720
TTCGAACGCA	CTTGCGGGCC	CGGGTTCCCT	CCGGGGCTAC	GCCTGTCTGA	GCGTCTGCTG	6780
CCGATCAATC	GCCCCGGGGG	TGCCTCCGGG	CTCCTCGGGG	TGCGCGGCTG	GGGGTTCCCT	6840
GCGAGGGCCC	GCCGGGGGGC	CTCCGTCCCC	CTAAGCGCAG	ACCCGGCGGC	GTCCGCCCTC	6900
CTCTTGCCCG	GCGCCCCGCC	CCTTCCCCCT	CCCCCGCGGG	GCCCTGCGTG	GTACGCGCTC	6960
GGGTGGCGGG	GGGGAGAGGG	GGGCGCGCCC	GGCTGAGAGA	GACGGGGAGG	GCGGCGCGCG	7020
CGCCGGAAGA	CGGAGAGGGA	AAGAGAGAGC	CGGCTCGGGC	CGAGTTCCCG	TGGCCGCCGC	7080
CTGCGGTCCG	GGTTCTCTCC	TCGGGGGGCT	CCCTCGCGCC	GCGCGCGGCT	CGGGGTTCCG	7140
GGTTCGTCCG	CCCCGGCCGG	GTGGAAGGTC	CCGTGCCCGT	CGTCGTCTGC	GTCGCGCGTC	7200
GTCCGGCGTG	GGGGCGTGTT	CGGTGCGGTG	TGGTGGTGGG	GGAGGAGGAA	CGCGGGTCCG	7260
GAAGGGGAAG	GGTGCCGGCG	GGGAGAGAGG	GTCGGGGGAG	CGCGTCCCGG	TCGCCGCGGT	7320
TCCGCCGCCC	GCCCCCGGTG	GCGGCCCGGC	GTCCGGCCGA	CCGGCCGCTC	CCCGCGCCCC	7380
TCCTCTCTCC	CGCCGCCCTT	CCTCCGAGGC	CCCGCCCGTC	CTCCTCGCCC	TCCCCGCGCG	7440
TACGCGCGCG	CGCCCGCCCC	CCCGGCTCGC	CTCGCGCGCG	GTCGGCCGGG	GCCGGGAGCC	7500
GCGCCCCGCG	CCCGCCCGTG	GCCGCGCGCG	CGGGGTTCCG	GTGTCCCCCG	CGGCGACCCG	7560
CGGGACGCGG	CGGTGTCTGC	CGCCGTCTCG	CGCCCGCCTC	CGGCTCGCGG	CCGCGCCGCG	7620
CCGCGCCGGG	GCCCCGTCCC	GAGCTTCCGC	GTCGGGGCGG	CGCGGCTCCG	CCGCGCGCTC	7680
CTCGGACCCG	TCCCCCCGAC	CTCCGCGGGG	GAGACGCGCC	GGGCGGTGCG	GCGCCCGTCC	7740
CGCCCCCGCG	CCGTGCCCTT	CCCTCCGGTC	GTCCCGCTCC	GGCGGGGCGG	CGCGGGGGCG	7800
CCGTGCGGCC	CGCGTCTCTT	CTCCCGTCTC	CTCTCCCCCT	CGCCGGGCCC	GCTCTCCGAC	7860
GGAGCGTCGG	GCGGGCGGTC	GGGCCGGCGC	GATTCCGTCC	GTCCGTCCGC	CGAGCGGCCC	7920
GTCCCCCTCC	GAGACGCGAC	CTCAGATCAG	ACGTGGCGAC	CCGCTGAATT	TAAGCATATT	7980
AGTCAGCGGA	GGAAAAGAAA	CTAACCAGGA	TTCCCTCAGT	AACGGCGAGT	GAACAGGGAA	8040
GAGCCACAGC	CCGAATCCCC	GCCCCGCGGG	GCGCGGGACA	TGTGGCGTAC	GGAGAACCCG	8100
CTCCCCGGCG	CCGCTCGTGG	GGGGCCCAAG	TCTTCTGTAT	CGAGGCCCCAG	CCCGTGGACG	8160
GTGTGAGGCC	GGTAGCGGCC	GGCGCGCGCC	CGGGTCTTCC	CGGAGTCGGG	TTGCTTGGGA	8220
ATGCAGCCCA	AAGCGGGTGG	TAAACTCCAT	CTAAGGCTAA	ATACCGGCAC	GAGACCGATA	8280
GTCAACAAGT	ACCGTAAGGG	AAAGTTGAAA	AGAACTTTGA	AGAGAGAGTT	CAAGAGGGCG	8340
TGAAACCGTT	AAGAGGTAAA	CGGGTGGGGT	CCGCGCAGTC	CGCCCGGAGG	ATTCAACCCG	8400
GCGGCGGGTC	CGGCCGTGTC	GGCGGCCCGG	CGGATCTTTC	CCGCCCCCCG	TCTCTCCCGA	8460
CCCCTCCACC	CGCCCTCCCT	TCCCCCGCCG	CCCCTCTCTC	TCCTCCCCCG	AGGGGGCGGG	8520
CTCCGGCGGG	TGCGGGGGTG	GGCGGGCGGG	GCCGGGGGTG	GGGTGCGCGG	GGGACCGTCC	8580
CCCGACCGGC	GACCGGCCGC	CGCCGGGCGC	AATTCCACCG	CGGCGGTGCG	CCGCGACCGG	8640
CTCCGGGACG	GCTGGGAAGG	CCCGGCGGGG	AAAGTGCGTC	GGGGGGCCCC	GTCCGTCCGT	8700
CCGTCTCTCT	CCTCCCCCGT	CTCCGCCCCC	CGGCCCGCGG	TCCTCCCTCG	GGAGGGCGCG	8760
CGGGTCGGGG	CGGCGGCGGC	GGCGGCGGTG	GCGGCGGCGG	CGGGGGCGGC	GGGACCGAAA	8820
CCCCCCCCGA	GTGTTACAGC	CCCCCGGCA	GCAGCACTCG	CCGAATCCCG	GGGCGGAGGG	8880
AGCGAGACCC	GTCGCCGCGC	TCTCCCCCTT	CCCCGGCGCC	ACCCCCGCGG	GGAATCCCCC	8940
GCGAGGGGGG	TCTCCCCCGC	GGGGGCGCGC	CGGCGTCTCC	TCGTGGGGGG	GCCGGGCCAC	9000
CCCTCCACAG	GCGCGACCGC	TCTCCACACC	CTCCTCCCCG	CGCCCCCGCC	CCGGCGACGG	9060
GGGGGGTGCC	GCGCGCGGGT	CGGGGGGCGG	GGCGGACTGT	CCCCAGTGCG	CCCCGGGCGG	9120
GTCGCGCCGT	CGGGCCCCGG	GGAGGTTCTC	TCCGGGGCAC	GCGCGCGTCC	CCCAAGAGGG	9180
GGGACGGCGG	AGCGAGCGCA	CGGGGTCCGC	GGCGAGTCG	GCTACCCACC	CGGACCTCTT	9240
TGAAACACGG	ACCAAGGAGT	CTAACACGTG	CGCGAGTCGG	GGGCTCGCAC	GAAAGCCGCC	9300
GTGGCGCAAT	GAAGGTGAAG	GCCGGCGCGC	TCGCCGGCCG	AGGTGGGATC	CCGAGGCCTC	9360
TCCAGTCCGC	CGAGGGCGCA	CCACCGGCC	GTCTCGCCCC	CCGCGCCGGG	GAGGTGGAGC	9420
ACGAGCGCAC	GTGTTAGGAC	CCGAAAGATG	GTGAACATAT	CCTGGGCAGG	GCGAAGCCAG	9480
AGGAAACTCT	GGTGGAGGTC	CGTAGCGGTC	CTGACGTGCA	AATCGTTCGT	CCGACCTGGG	9540
TATAGGGGCG	AAAGACTAAT	CGAACCATCT	AGTAGCTGGT	TCCCTCCGAA	GTTTCCCTCA	9600
GGATAGCTGG	CGCTCTCGCA	GACCCGACGC	ACCCCCGCCA	CGCAGTTTTA	TCCGGTAAAG	9660
CGAATGATTA	GAGGTCTTGG	GGCCGAAACG	ATCTCAACCT	ATTCTCAAAC	TTTAAATGGG	9720
TAAGAAGCCC	GGCTCGCTGG	CGTGGAGCCG	GGCGTGGAAT	GCGAGTGCCT	AGTGGGCCAC	9780

TTTTGGTAAG	CAGAACTGGC	GCTGCGGGAT	GAACCGAACG	CCGGGTAAAG	GCGCCCGATG	9840
CCGACGCTCA	TCAGACCCCA	GAAAAGGTGT	TGGTTGATAT	AGACAGCAGG	ACGGTGGCCA	9900
TGGAAGTCGG	AATCCGCTAA	GGAGTGTGTA	ACAACCTACC	TGCCGAATCA	ACTAGCCCTG	9960
AAAATGGATG	GCGCTGGAGC	GTCGGGGCCCA	TACCCGGCCG	TCGCCGGCAG	TCGAGAGTGG	10020
ACGGGAGCGG	CGGGGGCGGC	GCGCGCGCGC	GCGCGTGTGG	TGTGCGTCGG	AGGGCGGCGG	10080
CGGCGGCGGC	GGCGGGGGTG	TGGGGTCCTT	CCCCCGCCCC	CCCCCGCCAC	CCTCCTCCCC	10140
TCCTCCCGCC	CACGCCCCGC	TCCCCGCCCC	CGGAGCCCCG	CGGACGCTAC	GCCGCGACGA	10200
GTAGGAGGGC	CGCTGCGGTG	AGCCTTGAAG	CCTAGGGCGC	GGGCCCCGGT	GGAGCCGCCG	10260
CAGGTGCAGA	TCTTGGTGGT	AGTAGCAAAT	ATTCAAACGA	GAACCTTTGAA	GGCCGAAGTG	10320
GAGAAGGGTT	CCATGTGAAC	AGCAGTTGAA	CATGGGTTCAG	TCGGTCCTGA	GAGATGGGCG	10380
AGCGCCGTTT	CGAAGGGACG	GGCGATGGCC	TCCGTTGCCC	TCGGCCGATC	GAAAGGGAGT	10440
CGGGTTCAGA	TCCCCGAATC	CGGAGTGGCG	GAGATGGGCG	CCGCGAGGCG	TCCAGTGC GG	10500
TAACGCGACC	GATCCCGGAG	AAGCCGCGCG	GAGCCCCGGG	GAGAGTTCTC	TTTCTTTTGT	10560
GAAGGGCAGG	GCGCCCTGGA	ATGGGTTCGC	CCCGAGAGAG	GGGCCCCGTG	CTTGAAAGC	10620
GTGCGGGTTC	CGGCGGCGTC	CGGTGAGCTC	TCGCTGGGCC	TTGAAAATCC	GGGGGAGAGG	10680
GTGTAAATCT	CGTACCCGGC	CGTACCCATA	TCCGACAGCAG	GTCTCCAAGG	TGAACAGCCT	10740
CTGGCATGTT	GGAACAATGT	AGGTAAGGGA	AGTCGGCAAG	CCGGATCCGT	AACTTCGGGA	10800
TAAGGATTGG	CTCTAAGGGC	TGGGTCCGTC	GGGCTGGGGC	GCGAAGCGGG	GCTGGGCGCG	10860
CGCCGCGGCT	GGACGAGGCG	CGCGCCCCCC	CCACGCCCCG	GGCACCCCCC	TCGCGGCCCT	10920
CCCCCGCCCC	ACCCGCGCGC	GCCGCTCGCT	CCTCCCCAC	CCCGCGCCCT	CTCTCTCTCT	10980
CTCTCCCCCG	CTCCCCGTCC	TCCCCCTCC	CCGGGGGAGC	GCCGCGTGGG	GGCGCGCGCG	11040
GGGGAGAAGG	GTCGGGGCGG	CAGGGGCCCG	GCGGCGGCCG	CCGGGGCGGC	CGGCGGGGGC	11100
AGGTCCCCGC	GAGGGGGGCC	CCGGGGACCC	GGGGGGCCCG	CGGCGGCGCG	GACTCTGGAC	11160
GCGAGCCGGG	CCCTTCCCGT	GGATCGCCCC	AGCTGCGGCG	GGCGTCGCGG	CCGCCCCCGG	11220
GGAGCCCGGC	GGCGGCGCGG	GCGGCCCCCC	ACCCCAACCC	CACGTCTCGG	TCGCGCGCGC	11280
GTCCGCTGGG	GGCGGGAGCG	GTCGGGCGGC	GGCGGTTCGG	GGGCGGCGGG	GCGGGGCGGT	11340
TCGTCCCCCC	GCCCTACCCC	CCCGGCCCCG	TCCGCCCCCC	GTTCCCCCCT	CCTCCTCGGC	11400
GCGCGGCGCG	GGCGGCGGCA	GGCGGCGGAG	GGGCCGCGGG	CCGGTCCCCC	CCGCCGGGTC	11460
GCCCCCGGGG	GCCCGCGGTT	CGCGCGCGCC	TCGCTTCGGG	CGGCGCCTAG	CAGCCGACTT	11520
AGAACTGGTG	CGGACCAAGG	GAATCCGACT	GTTTAATTAA	AACAAAGCAT	CGCGAAGGCC	11580
CGCGGCGGGT	GTTGACGCGA	TGTGATTTCT	GCCCAGTGCT	CTGAATGTCA	AAGTGAAGAA	11640
ATTCAATGAA	GCGCGGGTAA	ACGGCGGGAG	TAACCTATGAC	TCTCTTAAGG	TAGCCAAATG	11700
CCTCGTCATC	TAATTAGTGA	CGCGCATGAA	TGGATGAACG	AGATTCCAC	TGTCCCTACC	11760
TACTATCCAG	CGAAACCACA	GCCAAGGGAA	CGGGCTTGCC	GGAATCAGCG	GGAAGATAAG	11820
ACCCTGTTGA	GCTTGACTCT	AGTCTGGCAC	GGTGAAGAGA	CATGAGAGGT	GTAGAATAAG	11880
TGGGAGGCCC	CCGGCGCCCC	CCCGGTGTCC	CCGCGAGGGG	CCCGGGGCGG	GGTCCGCGGC	11940
CCTGCGGGCC	GCCGGTGAAA	TACCACTACT	CTGATCGTTT	TTTCACTGAC	CCGGTGAGGC	12000
GGGGGGGGCA	GCCCCGAGGG	CTCTCGCTTC	TGGCGCCAAG	CGCCCCCGCC	GCCCGGCGCG	12060
ACCCGCTCCG	GGGACAGTGC	CAGGTGGGGA	GTTTGACTGG	GGCGGTACAC	CTGTCAAACG	12120
GTAACGCAGG	TGTCCTAAGG	CGAGCTCAGG	GAGGACAGAA	ACCTCCCGTG	GAGCAGAAGG	12180
GCAAAAGCTC	GCTTGATCTT	GATTTTCAGT	ACGAATACAG	ACCGTGAAAG	CGGGGCCTCA	12240
CGATCCTTCT	GACCTTTTGG	GTTTTAAGCA	GGAGGTGTCA	GAAAAGTTAC	CACAGGGATA	12300
ACTGGCTTGT	GGCGGCCAAG	CGTTCATAGC	GACGTCGCTT	TTTGATCCTT	CGATGTCCGG	12360
TCTTCCTATG	ATTGTGAAGC	AGAATTCGCC	AAGCGTTGGA	TTGTTCAACC	ACTAATAGGG	12420
AACGTGAGCT	GGGTTTAGAC	CGTCGTGAGA	CAGGTTAGTT	TTACCCTACT	GATGATGTGT	12480
TGTTGCCATG	GTAATCCTGC	TCAGTACGAG	AGGAACCGCA	GGTTCAGACA	TTTGGTGTAT	12540
GTGCTTGGCT	GAGGAGCCAA	TGGGGCGAAG	CTACCATCTG	TGGGATTATG	ACTGAACGCC	12600
TCTAAGTCAG	AATCCCGCCC	AGGCGAACCA	TACGGCAGCG	CCGCGGAGCC	TCGGTTGGCC	12660
TCGGATAGCC	GGTCCCCCGC	CTGTCCCCCG	CAGCGGGCCG	CCCCCCCCCT	CACGCGCCCC	12720
GCCGCGGGAG	GGCGCGTGCC	CCGCCGCGCG	CCGGGACCGG	GGTCCGGTGC	GGAGTGCCCT	12780
TCGTCTTGGG	AAACGGGGCG	CGGCCGGAAA	GGCGGCCGCC	CCCTCGCCCG	TCACGCACCG	12840
CACGTTTCGT	GGGAACCTGG	CGCTAAACCA	TTCTGATAGC	ACCTGCTTCT	GGGTCCGGGT	12900
TTCGTACGTA	GCAGAGCAGC	TCCCTCGCTG	CGATCTATTG	AAAGTCAGCC	CTCGACACAA	12960
GGGTTTGTCC	GCGCGCGCGT	GCGTGCGGGG	GGCCCCGGCG	GCGTGCGCGT	TCGGCGCGGT	13020
CCGTCTTCC	GTTCTGCTTC	CTCCCTCCCG	GCCTCTCCCG	CCGACCGCGG	CGTGGTGGTG	13080
GGGTGGGGGG	GAGGGCGCGC	GACCCCGGTC	GGCCGCCCCG	CTTCTTCGGT	TCCCGCCTCC	13140
TCCCCGTTCA	GCCTGGGGCG	GCTCGTCCCG	TCCGGGCCCC	GACGGGGTCC	GGGGAGCGTG	13200
GTTTGGGAGC	CGCGGAGGCG	CCGCGCCGAG	CCGGGGCCCC	TGGCCCCGCC	GTCCCCGTCC	13260
CGGGGGTTGG	CCGCGCGGCG	CGGTGGGGGG	CCACCCGGGG	TCCCGGCCCT	CGCGCGTCCT	13320
TCTCTCTCGC	TCCTCCGCAC	GGGTTCGACC	ACGAACCGCG	GGTGGCGGGC	GGCGGGCGGC	13380
GAGCCCCACG	GGCGTCCCCG	CACCCGGGCC	ACCTCCGCTC	GCGACCTCTC	CTCGGTCCGG	13440
CCTCCGGGGT	CGACCCCTTG	CGCCCGCGGG	CGTGAGACTC	AGCGGCGTCT	CGCCGTGTCC	13500
CGGGTCGACC	GCGGCCTTCT	CCACCGAGCG	GCGGTGTAGG	AGTGCCCGTC	GGGACGAACC	13560
GCAACCGGAG	CGTCCCCGTC	TCGGTCGGCA	CCTCCGGGGT	CGACCAGCTG	CCGCCCGCGA	13620
GCTCCGGAAT	TAGCCGGCGT	CTGCACGTGT	CCCGGGTTCGA	CCAGCAGGCG	GCCGCCGGAC	13680
GCAGCGGCGC	ACGCACGCGA	GGGCGTCGAT	TCCCTTTCGC	GCGCCCGCGC	CTCCACCGGC	13740
CTCGGCCCCG	GGTGGAGCTG	GGACCACGCG	GAACCTCCCTC	TCCACATTTT	TTTTTCAGCC	13800

CACCGCGAGT	TTGCGTCCGC	GGGACCTTTA	AGAGGGAGTC	ACTGCTGCCG	TCAGCCAGTA	13860
CTGCCTCCTC	CTTTTTTCGCT	TTTAGGTTTT	GCTTGCCTTT	TTTTTTTTTTT	TTTTTTTTTTT	13920
TTTTTTCTTT	CTTTCTTTCT	TTCTTTCTTT	CTTTCTTTCT	TTCTTTCTTT	CGCTTGTCTT	13980
CTTCTTGTGT	TCTCTTCTTG	CTCTTCTCT	GTCTGTCTCT	CTCTCTCTCT	CTCTCTCTGT	14040
CTCTCGCTCT	CGCCCTCTCT	CTCTTCTCTC	TCTCTCTCTC	TCTCTCTCTG	TCTCTCGCTC	14100
TCGCCCTCTC	TCTCTCTCTT	CTCTCTGTCT	CTCTCTCTCT	CTCTCTCTCT	CTCTCTCTCT	14160
GTGCTCTCTG	CCCTCTCGCT	CTCTCTCTGT	CTCTGTCTGT	GTCTCTCTCT	CTCCCTCCCT	14220
CCCTCCCTCC	CTCCCTCCCT	CCCTCCCCTT	CCTTGGCGCC	TTCTCGGCTC	TTGAGACTTA	14280
GCCGCTGTCT	CGCCGTACCC	CGGGTCGACC	GGCGGGCCTT	CTCCACCGAG	CGGCGTGCCA	14340
CAGTGCCCGT	CGGGACGAGC	CGGACCCGCC	GCGTCCCCGT	CTCGGTCCGC	ACCTCCGGGG	14400
TCGACCAGCT	GCCGCCCGCG	AGCTCCGGAC	TTAGCCGGCG	TCTGCACGTG	CCCCGGGTCG	14460
ACCAGCAGGC	GGCCGCCGGA	CGCAGCGGCG	CACCGACGGA	GGGCGCTGAT	TCCCGTTTAC	14520
GCGCCCCGCG	CTCCACCGGC	CTCGGCCCGC	CGTGGAGCTG	GGACCACGCG	GAACCTCCCTC	14580
TCCTACATTT	TTTTCAGCCC	CACCGCGAGT	TTGCGTCCGC	GGGACCTTTA	AGAGGGAGTC	14640
ACTGCTGCCG	TCAGCCAGTA	CTGCCTCCTC	CTTTTTTCGCT	TTTAGGTTTT	GCTTGCCTTT	14700
TTTTTTTTTT	TTTTTTTTTT	TTTTTTCTTT	CTTTCTTTCT	TTCTTTCTTT	CTTCTTTTCT	14760
TTCTTTCTTT	CTTTCTCTCT	CGCTCTCTCG	CTCTCTCCCT	CGCTCGTTTC	TTTCTTTTCTC	14820
TTTCTCTCTC	TCTCTCTCTC	TCTCTCTCTC	TCTGTCTCTC	GCTCTCGCCC	TCTCTCTCTC	14880
TTTCTCTCTC	TCTCTGTCTC	TCTCTCTCTC	TCTCTCTCTC	TCTCTCTCTC	CCTCCCTCCC	14940
TCCCTCTCCC	TCCCTCTCTG	CCCTTCCCTG	GCGCCTTCTC	GGCTCTTGAG	ACTTAGCCCG	15000
TGTCTCGCCG	TGTCCCGGGT	CGACCGCGCG	GCCTTCTCCA	CCGAGCGGGC	TGCCACAGTG	15060
CCCGTCGGGA	CGAGCCGGAC	CCGCCGCGTC	CCCGTCTCGG	TCGGCACCTC	CGGGGTCGAC	15120
CAGCTGCCGC	CCGCGAGCTC	CGGACTTAGC	CGGCGTCTGC	ACGTGTCCCC	GGTCGACCAG	15180
CAGGCGGCCG	CCGGACGCTG	CGGCGCACCC	ACGCGAGGGC	GTCGATTCCG	GTTACGCGCG	15240
CGGCGACCTC	CACCGGCCTC	GGCCCGCGGT	GGAGCTGGGA	CCACGCGGAA	CTCCCTCTCC	15300
CACATTTTTT	TCAGCCCCAC	CGCGAGTTTG	CGTCCGCGGG	ACTTTTAAGA	GGGAGTCACT	15360
GCTGCCGTCA	GCCAGTAATG	CTTCTCTCCT	TTTTTGCTTTT	TGGTTTTGCC	TTGCGTTTTTC	15420
TTTCTTTCTT	TCTTTCTTTT	TTTCTTTCTT	TCTTTCTTTT	TCTCTCTCTC	TCTCTCTCTC	15480
TCTCTGTCTC	TCTCTCTCTC	TCTCTCTCCC	CTCCCTCCCT	CCTTGGTGCC	TTCTCGGCTC	15540
GCTGCTGCTG	CTGCCCTCTG	CTCCACGGTT	CAAGCAAACA	GCAAGTTTTT	TATTTTCGAGT	15600
AAAGACGTAA	TTTACCATT	TTGGCCGGGC	TGGTCTCGAA	CTCCCGACCT	AGTGATCCGC	15660
CCGCCTCGGC	CTCCCAAAGA	CTGCTGGGAG	TACAGATGTG	AGCCACCATG	CCCGGCCGAT	15720
TCCTTCCTTT	TTTCAATCTT	ATTTTCTGAA	CGCTGCCGTG	TATGAACATA	CATCTACACA	15780
CACACACACA	CACACACACA	CACACACACA	CACACACACA	CACACACCCC	CACACACATA	15840
AACATGTAA	ATGATATTTT	CATAATTAAT	ACGTTTATAT	TATGTTACTT	TTAATGGATG	15900
AATATGTATC	GAAGCCCCAT	TTCAATTTACA	TACACGTGTA	TGTATATCCT	TCCTCCCTTC	15960
CTTCATTATC	TATTTATTAA	TAATTTTCGT	TTATTTATTT	TCTTTTCTTT	TGGGGCCCGC	16020
CCGCTGTGTC	TTCTGTCTCT	GCGCTCTGGT	GACCTCAGCC	TCCCAAATAG	CTGGGACTAC	16080
AGGGATCTCT	TAAGCCCGGG	AGGAGAGGTT	AACGTGGGCT	GTGATCGCAC	ACTTGACACTC	16140
CAGCTTACGT	GGGCTGCGGT	GCGGTGGGGT	GGGGTGGGGT	GGGGTGGGGT	GCAGAGAAAA	16200
CGATTGATTG	CGATCTCAAT	TGCCCTTTAG	CTTCATTATC	ACCCTGTTAT	TTGCTCGTTT	16260
ATTCTCATGG	GTTCTTCTGT	GTCATTGTCA	CGTTCATCGT	TTGCTTGCCCT	GCTTGCCCTGT	16320
TTATTTCTTT	CCTTCTCTTC	TTCTTCTCTT	CCTTCTCTTC	TTCTTCTCTT	CCCTCCCTTA	16380
CTGGCAGGGT	CTTCTCTGTG	CTCTGCCGCC	CAGGATCACC	CCAACCTCAA	CGCTTTGGAC	16440
CGACCAAACG	GTCGTTCTGC	CTCTGATCCC	TCCCATCCCC	ATTACCTGAG	ACTACAGGCG	16500
CGCACCACCA	CACCGGCTGA	CTTTTATGTT	GTTTCTCATG	TTTTCCGTAG	GTAGGTATGT	16560
GTGTGTGTGT	GTGTGTGTGT	GTGTGTGTGT	GTGTGTGTGT	GTGTGTGTGT	GTGTGTATCT	16620
ATGTATGTAT	ATGTATGTAT	ATGTATGTAT	GTGAGATGGG	TTTCGGGGTT	CTATCATGTT	16680
GCCCACGCTG	GTCTCGAACT	CTGTCTCTCA	AGCAATCCGC	CTGCCTGCCT	CGGCCGCCCA	16740
CACTGCTGCT	ATTACAGGCG	TGAGACGCTG	CGCCTGGCTC	CTTCTACATT	TGCCTGCCTG	16800
CCTGCCTGCC	TGCCTGCCTA	TCAATCGTCT	TCTTTTTTAGT	ACGGATGTCT	TCTCGCTTTA	16860
TTGTCCATGC	TCTGGGCACA	CGTGGTCTCT	TTTCAAACCT	CTATGATTAT	TATTATTGTA	16920
GGCGTCATCT	CACGTGTCTG	GGTGATCTCG	AACTTTTAGG	CTCCAGAGAT	CTCCCGCAT	16980
CGGCCTCCCG	GAGTGCTGTG	ATGACACGCG	TGGGCACGGT	ACGCTCTGGT	CGTGTTTGTC	17040
GTGGGTCGGT	TCTTTCCGTT	TTTAATACGG	GGACTGCGAA	CGAAGAAAAT	TTTCAGACGC	17100
ATCTCACCGA	TCCGCCTTTT	CGTTCCTTCT	TTTTATTCTC	TTTAGACGGA	GTTTCACTCT	17160
TGTCGCCAG	GGTGGAGTAC	GATGGCGGCT	CTCGGCTCAC	CGCACCCCTC	CGCTCCAGG	17220
TTCAAGTGAT	TCTCTGCCT	CAGCCTTCCC	GAGTAGCTGG	AATGACAGAG	ATGACAGATC	17280
GTGCCCCGCT	AATTTTTCTA	TTTTTAGTAC	AGATGGGGTT	TCTCCATCTT	GGTCAGGCTG	17340
GTCTTCAACT	TCCGACCGTT	GGAGAATCTT	AACTTTCTTG	GTGGTGGTTG	TTTTCTCTTT	17400
TCTTTTTTTT	TCTTTTCTTT	TCTTTCTCTT	TCTTCCCCCT	CCCACCCCTC	TTGTCGTCGT	17460
CCTCTCTCTC	TCTCTCTCTC	TCTCTCTCTC	TCTCTCTCTC	CTCCTCTCTC	TCTCTCTCTC	17520
CTTTCAGCTG	GGCTCTCTCT	CTTGTGTTGC	TCTGTTGCTC	ACGCTGGTCT	CAAACCTCTG	17580
GCCTTGACTC	TTCTCCCGTC	ACATCCGCGC	TCTGGTTGTT	GAAATGAGCA	TCTCTCGTAA	17640
AATGGAAAAG	ATGAAAGAAA	TAAACACGAA	GACGGAAAGC	ACGGTGTGAA	CGTTTCTCTT	17700
GCCGTCTCCC	GGGGTGTACC	TTGGACCCGG	AAACACGGAG	GGAGCTTGGC	TGAGTGGGTT	17760
TTCCGTGCCG	AAACCTCCCG	AGGGCCTCCT	TCCCTCTCCC	CCTTGTCCCC	GCTTCTCCGC	17820

CAGCCGAGGC	TCCCACCGCC	CCCCCTGGCA	TTTTCCATAG	GAGAGGTATG	GGAGAGGACT	17880
GACACGCCTT	CCAGATCTAT	ATCCTGCCGG	ACGTCTCTGG	CTCGGCGTGC	CCCACCGGCT	17940
ACCTGCCACC	TTCCAGGGAG	CTCTGAGGCG	GATGCGACCC	CCACCCCCCC	GTCACGTCCC	18000
GCTACCCTCC	CCCGGCTGGC	CTTTGCCGGG	CGACCCAGG	GGAACCGCGT	TGATGCTGCT	18060
TCGGATCCTC	CGGCGAAGAC	TTCCACCGGA	TGCCCCGGGT	GGGCCGGTTG	GGATCAGACT	18120
GGACCACCCC	GGACCGTGCT	GTCTTTGGGG	GTGGGTTGAC	GTACAGGGTG	GACTGCGCAGC	18180
CCCAGCATTG	TAAAGGGTGC	GTGGGTATGG	AAATGTCACC	TAGGATGCC	TCCTTCCCTT	18240
CGGTCTGCCT	TCAGCTGCCT	CAGGCGTGAA	GACAACCTCC	CATCGGAACC	TCTTCTCTTC	18300
CCTTTCTCCA	GCACACAGAT	GAGACGCACG	AGAGGGAGAA	ACAGCTCAAT	AGATACCGCT	18360
GACCTTCATT	TGTGGAATCC	TCAGTCATCG	ACACACAAGA	CAGGTGACTA	GGCAGGGACA	18420
CAGATCAAAC	ACTATTTCCG	GGTCCTCGTG	GTGGGATTGG	TCTCTCTCTC	TCTCTCTCTC	18480
TCTCTCTCTC	TCTCTCTCTC	TCTCGCACGC	GCACGCGCGC	ACACACACAC	ACAATTTCCA	18540
TATCTAGTTC	ACAGAGCACA	CTCACTTCCC	CTTTTCACAG	TACGCAGGCT	GAGTAAACG	18600
CGCCCCACCC	TCCACCCGTT	GGCTGACGAA	ACCCCTTCTC	TACAATTGAT	GAAAAAGATG	18660
ATCTGGGCCG	GGCAGCCTAG	CTCACGCTAG	TCACTCCGGC	ACTTTGGGAG	GCCGAGGCGG	18720
GTGGATCGCT	TGGGGCCGGG	AGTTCGAGAG	CAGGCTGGCC	GACGTGGCGA	AACCCCGTCT	18780
CTCTGAAAAA	TAGAACGATT	AGCCGGGCCT	GGTGGCGTGG	GCTTGGAATC	ACGACCGCTC	18840
GGGAGACTGG	GGCGGGCGAC	TTGTTCCAAC	CGGGGAGGCC	GAGGCCGCGA	TGAGCTGAGA	18900
TCGTGCCGTG	GCGATGCGGC	CTGGATGACG	GAGCGAGACC	CCGTCTCGAG	AGAATCATGA	18960
TGTTATTATA	AGATGAGTTG	TGCGCGGTGA	TGGCCGCTGT	TAGTCGCGGC	TACTCGGGAG	19020
GCTGAGACGA	GGAGAAGATC	ACTTGAGGCC	CCACAGGTCG	AGGCTTCGGT	CGGCCGTGAC	19080
CCACTGTATC	CTGGGCAGTC	ACCGGTCAAG	GAGATATGCC	CCTTCCCCGT	TTGCTTTTCT	19140
TTTCTTCCCT	TCTCTTTTCT	TCTTTTTTGCT	TCTCTTTTCT	TTCTTTCTTT	CTTTCTTTCT	19200
TTCTTTCTTT	TTTTCTTTCT	TTTTCTTTTT	CTCTCTTCCC	CTCTTTCTTT	CCTGCCTTCC	19260
TGCTTTTCTT	CTTTTCTTCT	TTCTCTCCCT	TCTCTCTTCC	TTCTTTCTCT	CCGCCTCAGC	19320
CTCCCAAAGT	GCTGGGATGA	CTGGCGGGAG	GCACCATGCC	TGCTTGGCCC	AAAGAGACCC	19380
TCTTGAAAG	TGAGACGCAG	AGAGCGCCTT	CCAGTGATCT	CATTGACTGA	TTTAGAGACG	19440
GCACTCTCGT	CCGTCACCCC	GGCAGTGGTG	CCGTCGTAAC	TCACTCCCTG	CAGCGTGGAC	19500
GCTCCTGGAC	TCGAGCGATC	CTTCCACCTC	AGCCTCCAGA	GTACAGAGCC	TGGGACCGCG	19560
GGCACGCGCC	ACTGTGCCCA	CACCGTTTTT	AATTGTTTTT	TTTTCCCCCG	AGACAGAGTT	19620
TCACTCTCGT	GGCCTAGACT	GCAGTGCGGT	GGCGCGATCT	TGGCTCACCG	CAACCTCTGC	19680
CTCCCGGTTT	CAAGCGATTC	TCCTGCATCG	GCCTCCTGAG	TAGCCGGGAT	TGCGGGCATG	19740
CGCTGCCACG	TCTGGCTGAT	TTCTGATTTT	TAGTGAGAGC	GGGGCTTCTC	CATGTCGATC	19800
GGGCTGGTTT	CGAATCCCG	ACCTCAGGTG	ATCCGCCCTC	CCCGGCTTCC	GGAAGTGCTG	19860
GGATGACAGG	CGTGAGCCAC	CGCGCCCGGC	CTTCATTTTT	AAATGTTTTT	CCACAGACGG	19920
GGTCTCATCA	TTTCTTTGCA	ACCCTCCTGC	CCGGCGTCTC	AAAGTGCTGG	CGTGACGGGC	19980
GTGAGCCACT	GCGCCTGGAC	TCCGGGGAAT	GACTCACGAC	CACCATCGCT	CTACTGATCC	20040
TTTCTTTTCT	TCTTTTCTTC	TTTCTTTTCT	TCTTTCTTTC	TTTCTTTCTT	TCTTTCTTGA	20100
TGAATTATCT	TATGATTTAT	TTGTGTACTT	ATTTTCAGAC	GGAGTCTCGC	TCTGGGCGGG	20160
GCGAGGCGAG	GCGAGGCACA	GCGCATCGCT	TTGGAAGCCG	CGGCAACGCC	TTTCAAAGCC	20220
CCATTCTGAT	GCACAGAGCC	TTATTCCTTT	CCTGGAGTTG	GAGCTGATGC	CTTCCGTAGC	20280
CTTGGGCTTC	TCTCCATTCT	GAAGCTTGAC	AGGCGCAGGG	CCACCCAGAG	GCTGGCTGCG	20340
GCTGAGGATT	AGGGGGTGTG	TTGGGGTGTG	AAACTGGGTC	CCCTATTTTT	GATACCTCAG	20400
CCGACACATC	CCCCGACCGC	CATCGCTTGC	TCGCCCTCTG	AGATCCCCCG	CCTCCACCGC	20460
CTTGCAGGCT	CACCTCTTAC	TTTCATTTCT	TCCTTTCTTG	CGTTTGAGGA	GGGGGTGCGG	20520
GAATGAGGGT	GTGTGTGGGG	AGGGGGTGGC	GGGTGGGGAC	GGAGGGGAGC	GTCTTAAGGG	20580
TCGATTTAGT	GTCATGCTTC	TTTCACCACC	ACCACCACCA	CCGAAGATGA	CAGCAAGGAT	20640
CGGCTAAATA	CCGCGTGCTC	TCATCTAGAA	GTGGGAACCT	ACAGATGACA	GTTCTTGCA	20700
GGGCAGAACG	AGGGGGACCG	GGGACGCGGA	AGTCTGCTTG	AGGGAGGAGG	GGTGGAAGGA	20760
GAGACAGCTT	CAGGAAGAAA	ACAAAACACG	AATACTGTCT	GACACAGCAC	TGACTACCCG	20820
GGTGATGAAA	TCATCTGCAC	ACTGAACACC	CCCGTCACAA	GTTTACCTAT	GTCACAATCT	20880
TGCACATGTA	TCGCTTGAAC	GACAAATAAA	AGTTAGGGGG	GAGAAGAGAG	GAGAGAGAGA	20940
GAGAGAGAGA	GACAGAGAGA	GACAGAGAGA	GAGAGAGAGG	AGGGAGAGAG	GAAAACGAAA	21000
CACCACCTCC	TTGACCTGAG	TCAGGGGGTT	TCTGGCCTTT	TGGGAGAACG	TTTACGCGAC	21060
ATGCAGTATT	TGGGCCCCGT	CTTTTTTTTT	CTTCTTCTTT	TCTTTCTTTT	TTTTTGGACT	21120
GAGTCTCTCT	CGCTCTGTCA	CCCAGGCTGC	GGTCGCGGTG	GCGCTCTCTC	GGCTCACTGA	21180
AACCTCTGCT	TCCCGGGTTC	CAGTGATTCT	TCTTCGGTAG	CTGGGATTAC	AGGCGCACAC	21240
CATGACGGCG	GGCTCATATT	CCTATTTTCA	GTAGAGACGG	GGTTTCTCCA	CGTTGGCCAC	21300
GCTGGTCTCG	AACCTCTGAC	CTCAAATGAT	CCGCCTTCTT	GGGCCTCCCA	AAGTGCTGGA	21360
AACGACAGGC	CTGAGCCGCC	GGGATTTTCA	CCTTTAAAAA	CGCGGCCCTG	CCACCTTTCT	21420
CTGTGGCCCT	TACGCTCAGA	ATGACGTGTC	CTCTCTGCCC	TAGGTTGACT	CCTTGAGTCC	21480
CCTAGGCCAT	TGCACTGTAG	CCTGGGCAGC	CTCCGNNCCC	CTCCGNNCCC	CCACCTCTCT	21540
GCGCACATAA	TAACTAACTA	ACAAACTAAC	TAACTAACTA	AACCTAACTA	CTAACTAAAA	21600
TCTCTACACG	TCACCCATAA	GTGTGTGTTT	CCGTGAGAGT	GATTTCTAAG	AAATGGTACT	21660
GTACACTGAA	CGCAGTGGCT	CACGTCTGTC	ATCCCGAGGT	CAGGAGTTCG	AGACCAGCCC	21720
GGCCAACGTG	GTAACACCCC	GTCTCTACTG	AAAATACGAA	ATGGAGTCAG	GCGCCGTGGG	21780
GCAGGCACCT	GTAACCCAG	CTACTCGGGA	GGTGGGGT	GAAGAATTGC	TTGAACCTGG	21840

CAGGCGGAGG	CTGCAGTGAC	CCAAGATCGC	ACCACTGCAC	TACAGCCTGG	GCGACAGAGT	21900
GAGACCCGGT	CTCCAGATAA	ATACGTACAT	AAATAAATAC	ACACATACAT	ACATACATAC	21960
ATACATACAT	ACATACATAC	ATCCATGCAT	ACAGATATAC	AAGAAAGAAA	AAAAGAAAAG	22020
AAAAGAAAGA	GAAAATGAAA	GAAAAGGCAC	TGTATTGCTA	CTGGGCTAGG	GCCTTCTCTC	22080
TGTCTGTTTC	TCTCTGTTTC	TCTCTGTCTT	TCTCTCTGTG	TCTCTTTCTC	TGTCTGTCTG	22140
TCTCTTTCTT	TCTCTCTGTC	TCTGTCTCTG	TCTTTGTCTC	TCTCTCTCCC	TCTCTGCCTG	22200
TCTCACTGTG	TCTGTCTTCT	GTCTTACTCT	CTTTCTCTCC	CCGTCTGTCT	CTCTCTCTCT	22260
CTCTCCCTCC	CTGTTTGTTC	CTCTCTCTCC	CTCCCTGTCT	GTTTCTCTCT	CTCTCTTTCT	22320
GTCTGTTTCT	GTCTCTCTCT	GTCTGTCTAT	GTCTTTCTCT	GTCTGTCTCT	TTCTCTGTCT	22380
GTCTGCCTCT	CTCTTTCTTT	TTCTGTGTCT	CTCTGTCCGT	CTCTCTCTCT	CTGTCTGTCT	22440
GTCTGTCTCT	CTCTCTCTCT	CTCTGTGCCT	ATCTTCTGTC	TTACTCTCTT	TCTCTGCCTG	22500
TCTGTCTGTC	TCTCCCTCCC	TTTCTGTTTC	TCTCTCTCTC	TCTCTCTCTC	TCCCCTCTCT	22560
CCTGTCTGTT	TCTCTCCGTC	TCTCTCTCTT	TCTGTCTGTT	TCTCACTGTC	TCTCTCTGTC	22620
CATCTCTCTC	TCTCTCTGTC	TGTCTCTTTC	GTTCTCTCTG	TCTGTCTGTC	TCTCTCTCTC	22680
TCTCTCTCTC	TCTCTCTCTC	TCCCTGTCTG	TCTGTTTCTC	TCTATCTCTC	GCTGTCCATC	22740
TCTGTCTTTC	TATGTCTGTC	TCTTTCTCTG	TCAGTCTGTC	AGACACCCCC	GTGCCGGGTA	22800
GGGCCCTGCC	CCTTCCACGA	AAGTGAGAAG	CGCGTGCTTC	GGTGCTTAGA	GAGGCCGAGA	22860
GGAATCTAGA	CAGGCGGGCC	TTGCTGGGCT	TCCCCACTCG	GTGTATGATT	TCGGGAGGTC	22920
GAGGCCGGGT	CCCCGCTTGG	ATGCGAGGGG	CATTTTCTCA	CTTTTCTCTC	GGTCACGTGT	22980
GGCGTCCGTA	CTTCTCCTAT	TTCCCCGATA	AGCTTCTCGA	CTTCAACATA	AACGCGGTCC	23040
TAAGGGTCGA	TTTAGTGTCA	TGCCCTTTTC	ACCGCCACCA	CCGAAGATGA	AAGCAAAGAT	23100
CGGCTAAATA	CCGCGTGTTT	TCATCTAGAA	GTGGGAACCT	ACAGATGACA	GTTCTTGTCAT	23160
GGGCAGAACG	AGGGGGACCG	GGNACGCGGA	AGCCTGCTTG	AGGGRRGGAG	GGYGGAAAGGA	23220
GAGACAGCTT	CAGGAAGAAA	ACAAAACACG	AATACTGTCT	GACACAGCAC	TGACTACCCG	23280
GGTGATGAAA	TCATCTGCAC	ACTGAACACC	CCCGTCACAA	GTTTACCTAT	GTCAAGTCTT	23340
TGCTCATGTA	TGCTTGAACG	ACAAATAAAA	GTTTCGGGGG	GAGAAGAGAG	GAGAGAGAGA	23400
GAGAGACGGG	GAGAGAGGGG	GGAGAGGGGG	GGGGAGAGAG	AGAGAGAGAG	AGAGAGAGAG	23460
AGAGAGAGAG	AGAAAGAGAA	GTAAACCCAA	CCACCACCTC	CTTGACCTGA	GTCAGGGGGT	23520
TTCTGGCCTT	TTGGGAGAAC	GTTCAGCGAG	AATGCAGTAT	TTGGGCCCCG	TCTTTTTTTC	23580
TTCTTCTTCT	TTTCTTTCTT	TTTTTTTGGA	CTGAGTCTCT	CTCGCTCTGT	CACCCAGGCT	23640
GCGGTGCGGT	GGCGCTCTCT	CGGCTCACTG	AAACCTCTGC	TTCCCGGGTT	CCAGTGATTCT	23700
TTCTTCGGTA	GCTGGGATTA	CAGGTGCGCA	CCATGACGGC	CGGCTCATCG	TTCTATTTTT	23760
AGTAGAGACG	GGGTTTCTCC	ACGTTGGCCA	CGCTGGTCTC	GAACCTCTGA	CCACAAATGA	23820
TCCACCTTCC	TGGGCTCTCC	AAAGTGCTGG	AAACGACAGG	CCTGAGCCCG	CCTGAGGATT	23880
GCCTTTAAAA	GCGCGCGGCC	CTGCCACCTT	TCGCTGCGGC	CCTTACGCTC	AGAATGACGT	23940
GTCCTCTCTG	CCATAGGTTG	ACTCCTTGAG	TCCCCTAGGC	CATTGCACTG	TAGCCTGGGC	24000
AGCAAGAGCC	AAACTCCGTC	CCCCCACCTC	CCCGCGCACA	TAATAACTAA	CTAACTAACT	24060
AATAACTAA	AATCTCTACA	CGTCACCCAT	AAGTGTGTGT	TCCCCTGAGG	AGTGATTTCT	24120
AAGAAATGGT	ACTGTACACT	GAACGACGGC	TTCACGTCTG	TCATCCCGAG	GTCAAGGATT	24180
CGAGACCAGC	CCGGCCCCACG	TGGTGAAACC	CCCGTCTCTA	CTGAAAATAC	GAAATGGAGT	24240
CAGGCGCCGT	GGGGCAGGCA	CCTGTAAACC	CAGCTACTCG	GGAGGCTGGG	GTGGAAGAAT	24300
TGCTTGAACC	TGGCAGGCGG	AGGCTGCAGT	GACCCAAGAT	CGCACCCTG	CACTACAGCC	24360
TGGGCGACAG	AGTGAGACCC	GGTCTCCAGA	TAAATACGTA	CATAAATAAA	TACACACATA	24420
CATACATACA	TACATACAAC	ATACATACAT	ACAGATATAC	AAGAAAGAAA	AAAAGAAAAG	24480
AAAAGAAAGA	GAAAATGAAA	GAAAAGGCAC	TGTATTGCTA	CTGGGCTAGG	GCCTTCTCTC	24540
TGTCTGTTTC	TCTCTGTTTC	TCTCTGTCTT	TCTCTCTGTG	TCTCTTTCTC	TGTCTGTCTG	24600
TCTGTCTGTC	TGTCTGTCTC	TTTCTTTCTT	TCTGTCTCTG	TCTTTGTCCC	TCTCTCTCCC	24660
TCTCTGCCCT	GTCTCACTGT	GTCTGTCTTC	TATCTTACTC	TCTTTCTCTC	CCCGTCTGTC	24720
TCTCTCTCAC	TCCCCTCCCTG	TCTGTTTCTC	TCTCTCTCTC	TTTCTGTCTG	TTTCTGTCTC	24780
TCTCTGTCTG	CCTCTCTCTT	TCTCTATCTG	TCTCTTTCTC	TGTCTGTCTG	CCCCTCTCTT	24840
TCTTTTTCTG	TGTCTCTCTG	TCTGTCTCTC	TCTCTCTCTG	TGCCTATCTT	CTGTCTTACT	24900
CTCTTTCTCT	GCCTGTCTGT	CTGTCTCTCT	CTGTCTCTCT	CTCCCTTTCT	GCTTCTCTCT	24960
CTCTCTCTCT	CTCTNNNCCC	TCCCTGTCTG	TTTCTCTCTG	TCTCCCTCTC	TTTCTGTCTG	25020
TTTCTCACTG	TCTCTCTCTG	TCTGTCTGTT	TCATTCTCTC	TGTCTCTGTC	TCTGTCTCTC	25080
TCTCTCTCTG	TCTCTCCCTC	TCTGTGTGTA	TCTTTTGTCT	TACTCTCCTT	CTCTGCCTGT	25140
CCGTCTGTCT	GTCTGTCTCT	CTCTCTCCCT	GTCCCTCTCT	CTTTCTGTCT	GTTTCTCTCT	25200
CTCTCTCTCT	CTCTCTCTCT	CTGTCTCTGT	CTTTCTCTGT	CTGTCCCTTT	CTCTGTCTGT	25260
CTGCCCTCTCT	CTTTCTCTTT	CTGTGTCTCT	CTGTCTCTCT	CTCTGTGCCT	ATCTTCTGTC	25320
TTACTCTCTT	TCTCTGCCTG	TCTATCTGTC	TGTCTCTCTC	TGTCTCTCTC	CCTGCCCTTC	25380
TGTTTCTCTC	TCTCTCCCTC	TCTCGTCTCT	TCTGTCTTTC	TCTCTTTCTC	TCTGTTTCTC	25440
TGTCTCTCTC	TGTCCGTCTC	TGTCTTTTTC	TGTCTGTCTG	TCTCTCTCTT	TCTTTCTGTC	25500
GTCTGTCTCT	GTCTCTGTCT	CTCTCTCTCT	CTCTCTCTCT	CTCCTGTGCT	CTCTCACTGT	25560
GTCTGTCTTC	TGTCTTACTC	TCCTTCTCTG	CCTGTCCATC	TGTCTGTCTG	TCTCTCTCTC	25620
TCTCTCCCTA	CCTTTCTGTT	TCTCTCTCGC	TAGCTCTCTC	TCTCTCTGCC	TGTTTCTCTC	25680
TTTCTCTCTC	TGTCTTTCTC	TGTCTGTCTC	TTTCTCTGTC	TGTCTGTCTC	TTTCTCTCTG	25740
TCTCTGTCTC	TGTCTCTCTC	TCTCTCTCTC	TCTCTCTCTC	TGCCTCTCTC	ACTGTGTCTG	25800
TCTTCTGTCT	TATTCTCTTT	CTCTCTCTGT	CTCTCTCTCT	CTCTCCCTTA	CTGTCTGTTT	25860

CTCTCTCTCT	CTCTCTCTTT	CTGCCTGTTT	CTCTCTGTCT	GTCTCTGTCT	TTCTCTGTCT	25920
GTCTGCCTCT	CTCTTTCTTT	TTCTGCGTCT	CTCTGTCTCT	CTCTCTCTCT	CTCTGTTCTT	25980
ATCTTCTGTC	TTACTCTGTT	TCCTTGCCCTG	CCTGCCTGTC	TGTGTGTCTG	TCTCTCTCTC	26040
TCTCTCTCTC	TCTCTCTCCC	TCCCTTTCTC	TTTCTCTGTC	TCTCTCTCTC	TTTCTGGGTG	26100
TTTCTCTCTG	TCTCTCTGTC	CATCTCTGTC	TTTCTATGTC	TGTCTCTCTC	TTTCTCTCTG	26160
TCTCTGTCTC	TGCTCTCTCT	TCTCTCTCTC	TCTCTCTCTC	TCTGTCTGTC	TCTCTCACTG	26220
TGTGTGTCTG	TCTTCTGTCT	TACTCTCCTT	CTCTGCCTGT	CCGTCTGTCT	GTCTGTCTCT	26280
CCCTCTCTCT	CCCTCCCTTT	CTGTTTCTCT	CTCTCTCTCT	TTCTGTCTGT	TTCTCTCTTT	26340
CTCTCTCTGT	CTGTCTCTTT	CTCTGTCTGT	CTGTCTCTCT	CTTTCTTTTT	CTCTGTCTCT	26400
CTGTCTCTCT	CTGTGTCTGT	CTCTCTGTCT	GTGCCTATCT	TCTGTCTTAC	TCTCTTTCTC	26460
TGGCTGTCTG	CCTGTCTCTC	TCTCTCTCTC	TGTCTGTCTC	CGTCCCTCTC	TCCCTGTCTG	26520
TCTGTTTCTC	TCTCTGCCCTC	TCTCTCTCTC	TGTCTGTCTC	TTTCTCTGTC	TGTCTGTCTC	26580
TCTCTTTCTT	TTTCTCTGTC	TCTCTGTCTC	TCTCTGTGTC	TGTCTCTCTT	TCTGTGCCTA	26640
TCTTCTGTCT	TACTCTCTTT	CTCTGGCTGT	CTGCCTGTCT	CTCTCTCTCT	GCCTGTCTCC	26700
GTCCCTCCCT	CCCTGTCTGT	CTGTTTCTCT	CTCTGTCTCT	GTCTCTCTGT	CCATCTCTGT	26760
CTGTCTCTTT	CTCTTCTCTC	CTCTCTGTCT	CTGTCTCTCT	CTCTCTCTGC	CTGTCTCTCT	26820
CACTGTGTCT	GTCTTCTGTC	TTACTCTCTT	TCTCTTGCCCT	GCCTCTCTGT	CTGTCTGTCT	26880
CTCTCCCTCC	ATGTCTCTCT	CTCTCTCTCA	CTCACTCTCT	CTCCGTCTCT	CTCTCTTTCT	26940
GTCTGTTTCT	CTCTCTGTCT	GTCTCTCTCC	CTCCATGTCT	CTCTCTCTCT	CTCTCACTCA	27000
CTCTCTCTCC	GTCTCTCTCT	CTCTTCTCTG	CTGTTTCTCT	CTCTGTCTGT	CTCTCTCCCT	27060
CCATGTCTCT	CTCTCTCCCT	CTCACTCACT	CTCTCTCCGT	CTCTCTCTCT	CTTTCTGTCT	27120
GTTTCTTTGT	CTGTCTGTCT	GTCTGTCTGT	CTGTCTCTCT	CTCTCTCTCT	CTCTCTCTCT	27180
CTCTCTGTTT	GTCTTTCTCC	CTCCCTGTCT	GTCTGTCTGT	CTCTCTCTCT	CTGTCTCTGT	27240
CTCTGTCTCT	CTCTCTTTCT	CTTTCTGTCT	GTTTCTCTCT	ATCTCTCGCT	GTCCATCTCT	27300
GTCTTTCTAT	GTCTGTCTCT	TTCTCTGTCA	GTCTGTCTCAGA	CACACCCGTG	CCGGTAGGGC	27360
CCTGCCCTTC	CACGAGAGTG	AGAAGCGCGT	GCTTCGGTGC	TTAGAGAGGC	CGAGAGGAAT	27420
CTAGACAGGC	GGGCCTTGCT	GGGCTTCCCC	ACTCGGTGTA	CGATTTCGGG	AGGTCGAGGC	27480
CGGGTCCCCG	CTTGATGCG	AGGGGCATTT	TCAGACTTTT	CTCTCGGTCA	CGTGTGGCGT	27540
CCGTACTTCT	CCTATTCTCC	CGATAAGTCT	CCTCGACTTC	AACATAAACT	GTTAAGGCCG	27600
GACGCCAACA	CGGCGAAACC	CCGTCTCTAC	TAAAAATACA	AAGCTGAGTC	GGGAGCGGTG	27660
GGGCAGGCC	TGTAATGCCA	GCTCCTCGGG	AGGCTGAGGC	GGGAGAATCG	CTTGAACCAG	27720
GGAAGCGGAG	GCTGCAGGGA	GCCGAGATCG	CGCCACTGCA	CTACGGCCCCA	GGCTGTAGAG	27780
TGAGTGAGAC	TCCGTCTCTA	AATAAATACG	GAAATTAATT	AATTCAATTA	TTCTTTTCCC	27840
TGCTGACGGA	CAATTGACAG	CAGGCATCGG	GTGTCTTCGG	GCATCACCTA	GCGGCTGCTG	27900
TTATTGAAAG	TCGACGTTGA	CACGGAGGGA	GGTCTCGCCG	ACTTCACCGA	GCCTGGGGCA	27960
ACGGGTTTCT	CTCTCTCCCT	TCTGGAGGCC	CCTCCCTCTC	TCCCTCGTTG	CCTAGGGAAC	28020
CTCGCCTAGG	GAACCTCCGC	CCTGGGGGCC	CTATTGTTCT	TTGATCGGCG	CTTTACTTTT	28080
CTTTGTGTTT	TGGCGCCTAG	ACTCTTCTAC	TTGGGCTTTG	GGAAGGGTCA	GTTTAATTTT	28140
CAAGTTGCCC	CCCGGCTCCC	CCCCTACCC	ACGTCCCTTC	ACCTTAATTT	AGTGAGNCGG	28200
TTAGGTGGGT	TTCCCCCAA	CCGCCCCCCC	CCCCCGCCT	CCCAACACCC	TGCTTGGA	28260
CCTTCCAGAG	CCACCCCGGT	GTGCCTCCGT	CTTCTCTCCC	CTTCCCCCAC	CCCTTGCCGG	28320
CGATCTCATT	CTTGCCAGGC	TGACATTGTC	ATCGGTGGGC	GTCAGGCCTC	ACTCGGGGGC	28380
CACCGTTTTT	GAAGATGGG	GCGGCACGGT	CCCACCTTCC	CGGAGGCAGC	TTGGGCCGAT	28440
GGCATAGCCC	TTTGACCCGC	GTGGGCAAGC	GGGCGGGTCT	GCAGTTGTGA	GGCTTTTCCC	28500
CCCGCTGCTT	CCCGCTCAGG	CCTCCCTCCC	TAGGAAAGCT	TCACCCTGGC	TGGGTCTCGG	28560
TCACCTTTTA	TCACGATGTT	TTAGTTTCTC	CGCCCTCCGG	CCAGCAGAGT	TTCAACAATGC	28620
GAAGGGCGCC	ACGGCTCTAG	TCTGGGCCTT	CTCAGTACTT	GCCCAAATA	GAAACGCTTT	28680
CTGAAACTA	ATAACTTTNC	TCACCTAAGA	TTTTCCAGGA	CGGCGCCTTG	GCCCGTGTTT	28740
GTGGCTTGT	TTTGTTCGT	TCTGTTTGT	TTTGTTCGTG	TTTTTCTTTT	CTCGTATGTC	28800
TTTCTTTTCA	GGTGAAGTAG	AAATCCCCAG	TTTTCAGGAA	GACGTCTATT	TTCCCCAAGA	28860
CACGTTAGCT	GCCGTTTTTT	CCTGTTGTGA	ACTAGCGCTT	TTGTGACTCT	CTCAACGCTG	28920
CAGTGAGAGC	CGGTTGATGT	TTACNATCCT	TCATCATGAC	ATCTTATTTT	CTAGAAATCC	28980
GTAGGCGAAT	GCTGCTGCTG	CTCTTGTTCG	GTTTGTGTTT	GTTGTTGTTG	TCGTCGTTGC	29040
TGTTGTCGTT	GTCGTTGTTG	TTGTCGTTGT	CGTTGTTTTT	AAAGTATACC	CCGGCCACCG	29100
TTTATGGGAT	CAAAAGCATT	ATAAAATATG	TGTGATTATT	TCTTGAGCAC	GCCCTTCCTC	29160
CCCCTCTCTC	TGTCTCTCTG	TCTGTCTCTG	TCTCTCTCTT	TCTCTGTCTG	TCTTCTCTCT	29220
CTCTCTCTCT	CTGTGCTCTC	CTCTCTCTGC	CTGTCTGTTT	CTCTCTCTCT	GCCTCTCTCT	29280
CTCTCTCTCT	CTCTGCCTGT	CTCTCTCACT	GTGTCTGTCT	TCTGTCTTAC	TCCCTTTCTC	29340
TGTCTGTCTG	TCGGTCTCTC	TCTCTCTCTC	TCCCTGTCTG	TATGTTTCTC	TCTGTCTCTG	29400
TCTCTCTCTC	TCTTTCTGTT	TCTCTCTCTC	CGTCTCTGTC	TTTCTCTGAC	TGTCTCTCTC	29460
TTTCTTCTC	TCTGTCTCTC	TCTGCTGTC	TCTCTCACTC	TGTCTTCTGT	CTTATCTCTC	29520
TCTCTGCTG	CCTGTCTCTC	TCACTCTCTC	TCTCTGTGTG	TCTCTCTCTC	CTTTTCTGTT	29580
TCTCTCTGTC	TCTCTGTCCG	TCTCTGTCTT	TCTCTGTCTG	TCTCTTTGTC	TGTCTGTCTT	29640
TGTCTTTTCT	TCTCTCTGTC	TCTGTCTCTC	TCACTGTGTC	TGTCTTCTGT	CTTAGTCTCT	29700
CTCTCTCTCT	CTCCCTGTCT	GTCTGTCTCT	CTCTCTCTCT	CCCCCTGTCT	GTTTCTCTCT	29760
CTCTCTCTCT	CTCTCTCTCT	CTCTGTCTTT	GTCTTTCTTT	CTGTCTCTGT	CTCTCTCTCT	29820
CTCTCTGTGT	GTCTGTCTTC	TGTCTTACTG	TCTTCTCTCT	CCTGTCTGTC	TGTCTGTCTC	29880

TCTCTGTCTG	TCTCTCTCTC	TCTCTCCCC	TGTCGGCTGT	TTCTCTGTCT	CTGTCTGTGT	29940
CTCTCTTTCT	GTCTGTTTCT	CTCTGTCTGT	CTTTCTCTCT	CTGTCTCTTT	CTCTCTGTCT	30000
CTCTGTCTGT	CTCTGTCTCT	CTCTCTGTCT	CTCTCTCTCT	GTGGGGGTGT	GTGTGTGTGT	30060
GTGTATGTGT	GTGTGTGTGT	GTGTGTGTGT	CTGCCTTCTG	TCTTACTCTC	TTTCTCTGCC	30120
TGTCTGTCTG	CCTGTCTGTT	TGTCTCTCTC	TCTCTGCCTG	TCTCTCTCCC	TTCTGTCTGT	30180
TTTCTCTCTC	TTTCTGTFTT	TCTCTGTCTC	TGTCCAATCT	TGTCTTTCTC	CTCTGTCTCT	30240
TTTATCTGTC	TCTCTCCGTC	TGTCTCTTTA	TCTGTCTCTC	TCTCTCTTTT	TGTCTTTCTC	30300
TCTCTGTGTA	TCGTTGTCTC	TCTCTGTCTG	TCTCTGTCTC	TGTCTCTCTG	TCTCTCTCTC	30360
TCTCTCTCTC	TCTCTGTCTG	TCTGTCCGTC	TGTCTGTCTC	GGTCTCTGCG	TCTCGCTATC	30420
TCCC GCCCTC	TCTTTTTTTT	CAAAAGAAGC	TCAAGTACAT	CTAATCTAAT	CCCTTACCAA	30480
GGCCTGAATT	CTTCACTTCT	GACATCCCAG	ATTTGATCTC	CCTACAGAAT	GCTGTACAGA	30540
ACTGGCGAGT	TGATTTCTGG	ACTTGGATAC	CTCATAGAAA	CTACATATGA	ATAAAGATCC	30600
AATCCTAAAA	TCTGGGGTGG	CTTCTCCCTC	GACTGTCTCG	AAAAATCGTA	CCTCTGTTCC	30660
CCTAGGATGC	CGGAAGAGTT	TTCTCAATGT	GCATCTGCCC	GTGTCCTAAG	TGATCTGTGA	30720
CCGAGCCCTG	TCCGTCCTGT	CTCAAATATG	TACGTGCAAA	CACTTCTCTC	CATTTCACAA	30780
ACTACCCACG	GCCCCTTGTG	GAACCACTGG	CTCTTTGAAA	AAAATCCCAG	AAGTGGTTTT	30840
GGCTTTTTTG	CTAGGAGGCC	TAAGCCTGCT	GAGAACTTTC	CTGCCCAGGA	TCCTCGGGAC	30900
CATGCTTGCT	AGCGCTGGAT	GAGTCTCTGG	AAGGACGCAC	GGGACTCCGC	AAAGCTGACC	30960
TGTCCCACCG	AGGTCAAATG	GATACCTCTG	CATTGGCCCC	AGGCCTCCGA	AGTACATCAC	31020
CGTCACCAAC	CGTCACCGTC	AGCATCCTTG	TGAGCCTGCC	CAAGGCCCGG	CCTCCGGGGA	31080
GACTCTTGGG	AGCCCGGCCT	TCGTCCGGTA	AAGTCCAAAG	GGATGGTGAC	TTCCACCCAC	31140
AAGGTCCCAC	TGAACGGCGA	AGATGTGGAG	CGTAGGTCAG	AGAGGGGACC	AGGAGGGGAG	31200
ACGTCCCGAC	AGGCGACGAG	TTCCCAAGGC	TCTGGCCACC	CCACCCACGC	CCCACGCCCC	31260
ACGTCCCGGG	CACCCCGCGG	ACACCGCCGC	TTTATCCCCT	CCTCTGTCCA	CAGCCGGCCC	31320
CACCCACCA	CGCAACCCAC	GCACACACGC	TGGAGGTTCC	AAAACCACAC	GGTGTGACTA	31380
GAGCCTGACG	GAGCGAGAGC	CCATTTACAG	AGGTGGGAGG	GGTGGGGGTG	GGGTGGGTTG	31440
GGGGTTGTGG	GGTCTGTGGC	GAGCCCCGAT	CTCCCTCTTG	GGTGGCTACA	GGCTAGAAAT	31500
GAATATCGCT	TCTTGGGGGG	AGGGGCTTCC	TTAGGCCATC	ACCGCTTGCG	GGACTACCTC	31560
TCAAACCCCT	CCTTGAGGCC	ACAAAATAGA	TTCCACCCCA	CCCATCGACG	TTTCCCCCGG	31620
GTGCTGGATG	TATCCTGTCA	AGAGACCTGA	GCCTGACACC	GTCTGAATTAA	ACACCTTGAC	31680
TGGCTTTGTG	TGTTTGTTTG	TTTCTGAGAT	GGAGTCTTGC	TCTGTCCCCC	AGGCTGGAGT	31740
GCAGTGGCGT	GATCTCAGCT	CACTGGAACC	TCTGCCTCCT	GGGTTCAAGT	GATTCTCCTG	31800
TCTCAGCGCG	ACCATGGCCG	GCTCATTTTT	TTTTTTTTTT	TTTTTGGTAG	ACACGGGGTT	31860
TCACCTCTT	CTATTGTTTT	TCACTGGAGA	TTCTAGATTCT	GAGCCACACC	TCATTCCGTG	31920
CCACAGAGAG	ACTTCTTTTT	TTTTTTTTTT	TTTTTAAGCG	CAACGCAACA	TGTCTGCCTT	31980
ATTTGAGTGG	CTTCCTATAT	CATTATAATT	GTGTTATAGA	TGAAGAAACG	GTATTAAACA	32040
CTGTGCTAAT	GATAGTGAAA	GTGAAGACAA	AAGAAAGGCT	ATCTATTTTG	TGGTTAGAAT	32100
AAAGTTGCTC	AGTATTTAGA	AGCTACCTAA	ATACGTCAGC	ATTTACACTC	TTCTTAGTAA	32160
AAGCTGGCCG	ATCTGAATAA	TCCTCCTTTA	AACAAACACA	ATTTTGTATA	GGGTTAAGAT	32220
TTTTTTAAGA	ATGCGACTCC	TGCAAAATAG	CTGAACAGAC	GATACACATT	TAAAAAATA	32280
ACAACACAAG	GATCAACCAG	ACTTGGGAAA	AAATCGAAAA	CCACACAAGT	CTTATGAAGA	32340
ACTGAGTTCT	TAAAATAGGA	CGGAGAACGT	AGCTATCGGA	AGAGAAGGCA	GTATTGGCAA	32400
GTTGATTGTT	ACGTTGGTCA	GCAGTAGCTG	GCACATCTTT	TTTGGCCATC	TTTCGGGCAA	32460
TGTAACACT	ACAGCAAAAT	GAGATATGAT	CCATTAAACA	ACATATTTCG	AAATCAAAAA	32520
GTGTTTCAGT	AATATAATGC	TTCAGATTTA	GAAGCAAATC	AAATGATAGA	ACTCCACTGC	32580
TGTAATAAGT	CACCCCAAAG	ATCACCGTAT	CTGACAAAAT	AACTACCACA	GGGTTATGAC	32640
TTCAGAATCA	TACTTTCTTC	TTGATATTTA	CCTATGTATT	TATTTTTTTT	AATTTATTTT	32700
TCTTGAGACG	CGTCTCGCTC	TGTCGCCGAC	CTTGGAGTGC	GATGGTGTGA	TCTCGGCTCA	32760
CTGCAACCGC	CACCTCCCTG	GGTTCAAGCG	ATTCTCTCTG	CTCAGCCTCC	CGAGTAGCTG	32820
GGACTACAGG	TGCCCCGCCAC	CACGCCCAGC	TAATCTTTAT	ACTTTTAATA	GAGACGGGGT	32880
TTCACCGTGT	CGGCCCGGAT	GGTCTCGATC	TCTTGACCTC	GTGACCCGCC	CGCCTCGGCC	32940
TCCCAAAGTG	CTGGGATGAC	AGGCGTGAGC	CACCTGAGCC	GGCCTTCTCT	TGACGTTTAA	33000
ACTATGAAGT	CAGTCCAGAG	AAACGCAATA	AATGTCAACG	GTGAGGATGG	TGTTGAGGCA	33060
GAAGTAGGAC	CACACTTTTT	CCTATCTTAT	TCAGTTGATA	ACAATATGAC	CTAGGTAGTA	33120
ATTTCTCTAT	TGCCTACTTA	TACACGAGTA	CAAAAGAGTA	AAACAGAGAG	ACTGCTAAAT	33180
TAAAGGGTAC	GTGAAGTTCT	TCATAGTAAC	TCCGTAAACT	GGAACACTGT	CAAAAAGCAG	33240
CAGCTAGTGA	ATTGTTTCCA	TGTATTTTTT	TATTATCCAA	TAAGTGAAC	ATGCTATTCC	33300
TTTCCAGTCT	CCCAAGCACT	TCTTGTCCCC	ATCACCACCT	CGGTGCTCGA	AGAAAAAGTA	33360
AGCAAATCAA	GGAACACAAG	CTAAAGAAAC	ACACACACAA	ACCAAAGACA	ACTACAGCGT	33420
CTGCAAAAGT	TTGCTAGAAG	ACTGAAACTG	TTGAGTATAA	GGATCTGGTA	TTCTACGATC	33480
ATGAGTTTCA	TTCAGAGTTT	GTTCAAGACA	TACGTTTCGT	AAGGAAACAT	CTTAGTTAGA	33540
AGTTATTCAG	CAGTAGGTAC	CATCCCTAAG	TATTTTTTAC	CAAATCCGTG	ACAATAAGA	33600
GCTATCTAAC	CAGAAAAATT	AGCGAGTACG	GGCACCATCC	ATAGGGCTTT	GTCTTTACGC	33660
TTCATTAGCA	CTTACCATGC	CTTACAATGT	CTAGGATTGA	CCCTGATAGC	ATTTGCAAAA	33720
CAAGCTAATG	CTTTGTCCAG	TTCTTCAGTG	AAGACAACCT	ACGCCCTAAT	GCGCTATAGG	33780
CATAAGCATC	ATTTGGATCC	ACTTCGAGAG	TTCTCTGGAA	GAATTGAATC	GCAATATCGT	33840
GTTCCCGTTT	GCAGACCGAA	ACAGTTTCCC	TGCAGCACAC	CAGGCCTCTG	GCTGGCGAAT	33900

TTTTATCCAT	GTCTGTGAAG	TCTTTGGACA	GAAGTGAAG	AGCAACCTCT	TTCCGAGGAT	33960
GCCAAAGTGT	TGTAGAGTAG	ATCTCCATGC	CTTCGACTCT	GTAATTCTCA	ATCCTCCTAA	34020
CCTCTGAGAA	TTGTCTTTCA	GCTTGCGTGG	ACTCTGAAAG	TTTACAATAG	GCCNTTTCCG	34080
ATTTGGCACA	GTACCCAACC	GGTATTGCAG	TGGTGAGAAG	CTAGATGGCT	CAAGATGCTG	34140
ATAGCTTCTT	TGCCGTGGTA	AGAACACAAA	GCTAAATAAC	CTTTCCCCCT	TTCAACGAAGA	34200
AGGCTCATCA	AGCCTTCCGC	TGCTGCTTTT	TGTAGATTAA	AAGCCTGAAT	CTGAGGCGCG	34260
ATTGCGGCTA	TTTTCCCTTC	TGAAATGACG	GAAGAGTCCA	ATTTTGTAC	TTCCAGGCTA	34320
TCACCTATGT	TCGGTGGAGT	TATTGCTCCT	TTATTAGTTT	TACTTTTGGT	TCTTCTGTTT	34380
GGGATTTTAG	GTGGAAACTT	CATTTTAAAT	TTTCTCCTAA	TTCTCCTCGG	TTGTGGAGCT	34440
GTCAC TAGT	AAGAGTCGTG	AATTTCTTCG	AGGNCGGTGC	ATTTGGGGGA	GATGCCATAG	34500
TGGGGCTCAA	TACCTGAGGT	GTTGCCCTTG	TCGGCGGACC	AGAACTTTGT	GTTTTTGCAA	34560
GGACTGGAGT	TACCTTTTCGG	CTCTTTCCCC	TCTGCGAGAA	GACAGACGGT	GTTCCGGTTT	34620
GGCCGATTCT	GGCAACAGGC	TTTTCTGAAG	GGGCTCCGGT	GGATGGCACG	TCAGTGACAG	34680
ACGGTGTCTC	ATACCAAGTG	AGTTTGTGCA	ATAGGGTCCG	TCTCCGGGAC	TTGGGGTTTC	34740
TAATGGCAAA	ATGCCAACAC	TTGGGGTTAA	TGGACTAACA	GCTGCTGGTC	CTCCTAATAA	34800
ACTTCGACCA	GTTTTTGGTT	TATGTTGAAC	CTGTTTAGAT	CATATGGAAG	TTCTGTTC	34860
CAGTGGGACA	GTATCAGGTG	AAAGGACAGC	TGAATCGATA	GAAGACACTG	GGGAGTCTGT	34920
ATTCAAGGAG	TACTTTGAAT	TGGAAGATTG	TAAATTCCAT	CCGTTTCATT	CGACGGTGTC	34980
CTGGGGTGT	TCCGTAAGAA	CGGTCTCGGG	CTGTCTGTGA	CATAAACTAG	GACGAGGTCC	35040
AAGTGTTGTG	GCGCAACACT	TGGACAGGCA	GTTGCTAAAG	CTCTCTAGAG	AGGTGAATCA	35100
AAATGTTTGG	TCAGGATCTG	GCTTTTCCCC	CCTATTTTAC	ATCATGATTC	AAAGGGACAC	35160
CAGAGGAAAG	GATTTCAACG	AAGGCTCTTT	TGGTCAACAT	CTGATCCTTT	GGTAAGCCGA	35220
TCTGTCTTGC	AATATACATG	TCCCGACGAT	GGAAGGGGAA	AGCGAGCTGA	ATCACCACAA	35280
TCAGGAACGA	TAATATCATC	GTGGCTTTTC	TGCTTATGAA	ACACTCCACC	CGATAAGATT	35340
TGATCCCTTT	CTGCAAGCTT	GCTGAGATCA	ACACAACATT	TCGCAAGCAG	GCATTTGCAT	35400
TGCGGGGTAG	TACAACGTG	TCCTTTCAAG	AGTCTATATG	TTTTATAGGC	CTTTCCTGAG	35460
CGGTAAGAAG	AGGTGCGCCAG	TAAGAACAAAG	GCTTCTTCTG	AGTGTACTTC	TGCATAAAGG	35520
CGTTCTGCGG	GGGAAACCGC	ATCTCGGTAG	GCATAGTGGT	TTAGTGCTTG	CCATATAGCA	35580
GCCTGGACGG	TCCCTGCAG	CACCGCCATC	CTCGAGGCTC	AGGCCCCACT	TCTGCAGTGC	35640
CACAGGCACC	CCCCCCCCC	CATAGCGGCT	CCGGCCCCGG	CAGCCCCGGC	TCATTTAAAG	35700
GCACCAGCCG	CCGTTACCGG	GGGATGGGGG	AGTCCGAGAC	AGAATGACTT	CTTTATCCTG	35760
CTGACTCTGG	AAAGCCCCGG	GCCTTGTGAT	CCATTGCAAA	CCGAGAGTCA	CCTCGTGTTT	35820
AGAACACGGA	TCCACTCCCA	AGTTCAGTGG	GGGGATGTGA	GGGGTGTGGC	AGGTAGGACG	35880
AAGGACTCTC	TTCTTCTGA	TTCTGTTGTC	ACAGTGGGGC	CTAGGGCTGG	AGCTCTCTCC	35940
GTGCGGACCG	CTGACTCCCT	CTACCTTGGG	TTCCCTCGGC	CCCACCCTGG	AACGCCGGGC	36000
CTTGGCAGAT	TCTGGCCCTT	TCTGGCCCTT	CAGTCGCTGT	CAGAAACCCC	ATCTCATGCT	36060
CGGATGCCCC	GAGTGACTGT	GGCTCGCACC	TCTCCGGAAA	CATTGGAAAT	CTCTCCTCTA	36120
CGCGCGGCCA	CCTGAAACCA	CAGGAGCTCG	GGACACACGT	GCTTTCGGGA	GAGAAAGCTG	36180
AGAGTCTCTC	GCCGACTCTC	TCTTGACTTG	AGTTCTTCGT	GGGTGCGTGG	TTAAGAGCTA	36240
GTGAGACCAG	ATGTATTAAC	TCAGGCCGGG	TGCTGGTGGC	TCACGCCTGT	AACCCCAACA	36300
CTTTGGGAGG	CCGAGGCCGT	AGGATCCCTC	GAGGAATCGC	CTAACCCTGG	GGAGGTTGAG	36360
GTTGCAGTGA	GTGAGCCATA	GTTGTGTGAC	TGTGCTCCAG	TCTGGGCGAA	AGACAGAATG	36420
AGGCCCTGCC	AGGAGGAGC	AGGAGGAGC	GCAGGCAGAA	AGACAACAGC	TGTATTATGT	36480
TCTTCTCAGG	GTAGGAAGCA	AAAATAACAG	AATACAGCAC	TTAATTAATT	TTTTTTTTTT	36540
CCTTCGGACG	GAGTTTCACT	CTTGGTGGCC	ACGCTGGAGT	GCAGTGGCAC	CATCTCGGCT	36600
CACCGCAACC	TCCACCTCCC	GCGTTCAAGC	GATTCTCCTG	CCTCAGCCTC	CTGAGTAGCT	36660
GGGATTACAG	GGAGGAGCCA	CCACACCCAG	CTGATTTTGT	ATTGTTAGTA	GAGACGGCAT	36720
TTCTCCATGT	GGGTCAAGCT	GGTCTCGAAC	TGGCGACCCC	AGTGGATCTG	CCCGCCCGCG	36780
CCTCCCAAAG	TGCTGGGGTG	ACAGGCGTGA	GCCATCGTGA	CTGGCCGGCT	ACGTTTATTT	36840
ATTTATTTTT	TTAATTATTT	TACTTTTTTT	TAGTTTTTCA	TTTTAATCTA	TTTATTTATT	36900
TACATTTATT	TATTTATTTA	TTTATTTACT	TATTTATTTA	TTTTTCGAGAC	AGACTCTCGC	36960
TCTGCTGCCC	AGGCTGGAGT	GCAGCGGCGT	GATCTCGGCT	CACTGCAACG	TCCGCTCTCC	37020
GGGTTACACG	CATTCTCCTG	CCTCAGCCTC	CCAAGTAGCT	GGGACTACAG	GCGCCCTCCA	37080
CCGTGCCCCG	CTAACTTTTT	GTATTTTGAG	TAGAGATGGG	GTTTCACTGT	GGTAGCCAGG	37140
ATGGTCTCGA	TCTCCTGACC	CCGTGATCCG	TCCACCTCGG	CCTCCCAAAG	TGCTGGGATG	37200
ACAGGCGTGA	GCCACCGGCC	CCGGCCTATT	TATCTATTTA	TTAACTTTGA	GTCCAGGTTA	37260
TGAAACCAAGT	TAGTTTTTGT	AATTTTTTTT	TTTTTTTTTT	TTTTTTGAGA	CGAGGTTTCA	37320
CCGTGTTGCC	AAGGCTTGGA	CCGAGGGATC	CACCGGCCCT	CGGCCTCCCA	AAAGTGGCGG	37380
GATGACAGGC	GCGAGCCTAC	CGCGCCCGGA	CCCCCCTTTT	CCCCTTCCCC	CGCTTGCTCT	37440
CCCGACAGAC	AGTTTTCACG	CAGAGCGTTT	GGCTGGCGTG	CTTAAACTCA	TTCTAAATAG	37500
AAATTTGGGA	CGTCAGCTTC	TGGCCTCAGC	GACTCTGAGC	CGAGGAGTCC	CCTGGTCTGT	37560
CTATCACAGG	ACCGTACACG	TAAGGAGGAG	AAAAATCGTA	ACGTTCAAAG	TCAGTCAATT	37620
TGTGATACAG	AAATACACGG	ATTACCCCAA	AACACAGAAA	CCAGTCTTTT	AGAAATGGCC	37680
TTAGCCCTGG	TGTCCGTGCC	AGTGATTCTT	TTCGGTTTGG	ACCTTGACTG	AGAGGATTCC	37740
CAGTCGGTCT	CTCGTCTCTG	GACGGAAGTT	CCAGATGATC	CGATGGGTGG	GGGACTTAGG	37800
CTGCGTCCCC	CCAGGAGCCC	TGGTTCGATT	GTTGTGGGGA	TCGCCTTGGA	GGGCGCGGTG	37860
ACCCACTGTG	CTGTGGGAGC	CTCCATCCTT	CCCCCACCCT	CCTCCCCAGG	GGGATCCCAA	37920

TTCATTCCGG	GCTGACACGC	TCACTGGCAG	GCGTCGGGCA	TCACCTAGCG	GTCACTGTTA	37980
CTCTGAAAAC	GGAGGCCTCA	CAGAGGAAGG	GAGCACCAGG	CCGCCTGCGC	ACAGCCTGGG	38040
GCAACTGTGT	CTTCTCCACC	GCCCCCGCCC	CCACCTCCAA	GTTCTCTCCT	CCCTTGTTGC	38100
CTAGGAAATC	GCCACTTTGA	CGACCGGGTC	TGATTGACCT	TTGATCAGGC	AAAAACGAAC	38160
AAACAGATAA	ATAAAATAAA	TAACACAAAA	GTAACATACT	AAATAAAATA	AGTCAATACA	38220
ACCCATTACA	ATACAATAAG	ATACGATACG	ATAGGATGCG	ATAGGATACG	ATAGGATACA	38280
ATACAATAGG	ATACGATACA	ATACAATACA	ATACAATACA	ATACAATACA	ATACAATACA	38340
ATACAATACA	ATACAATACG	CCGGGCGCGG	TGGCTCATGC	CTGTCATCCC	GTCACTTTGG	38400
GATGCCGAGG	TGGACGCATC	ACCTGAAGTC	GGGAGTTGGA	GACAAGCCCC	ACCAACATGG	38460
AGAAATCCCC	TCTCAATTGA	AAATACAAAA	CTAGCCGGGG	GCGGTGGCAC	ATGCCTATAA	38520
TCCCAGCTGC	TAGGAAGGCT	GAGGCAGGAG	AATCGCTTGA	ACCTGGGAAG	CGGAGGTTGC	38580
AGTGAGCCGA	GATTGCGCCA	TCGCACTCCA	GTCTGAGCAA	CAAGAGCGAA	ACTCCGTCTC	38640
AAAAATAAAT	ACATAAATAA	ATACATACAT	ACATACATAC	ATACATACAT	ACATACATAC	38700
ATAAATTAAA	ATAAATAAAT	AAAATAAAT	AAATAAATGG	GCCCTGCGCG	GTGGCTCAAG	38760
CCTGTCTATC	CCTCACTTTG	GGAGGCCAAG	GCCGGTGGAT	CAAGAGGCGG	TCAGACCAAC	38820
AGGGCCAGTA	TGGTGAAACC	CCGTCTCTAC	TCACAATACA	CAACATTAGC	CGGGCGCTGT	38880
GCTGTGCTGT	ACTGTCTGTA	ATCCCAGCTA	CTCGGGAGGC	CGAGCTGAGG	CAGGAGAATC	38940
GCTTGAACCT	GGGAGGCGGA	GGTTGCAGTG	AGCCGAGATC	GCGCCACTGC	AACCCAGCCT	39000
GGGCGACAGA	GCGAGACTCC	GTCTCCAAAA	AATGAAAATG	AAAATGAAAC	GCAACAAAAT	39060
AATTAAAAAG	TGATTTTCTG	GGGAAAAAGA	AGAGAAAAAA	AAAGAAAAAA	ACAACAAAAC	39120
AGAACAACCC	CACCGTGACA	TACACGTACG	CTTCTCGCCT	TTTCGAGGCT	CAACACACGT	39180
AGGAATTATG	CGTGATTCTT	TTTTTTAACT	TCATTTTATG	TTATTATCAT	GATTGATGTT	39240
TCGAGACGGA	GTCTCGGAGG	CCCGCCCTCC	CTGGTTGCCC	AGACAACCCC	GGGAGACAGA	39300
CCCTGGCTGG	GCCCGATTGT	TCTTCTCTCT	GGTCAGGGGT	TTCTTTGTCT	TTCTTCGTGT	39360
CTTTAACCCG	CGTGGACTCT	TCCGCCTCGG	GTTTGACAGA	TGGCAGCTCC	ACTTTAGGCC	39420
TTGTTGTTGT	TGGGGACTTT	CCTGATTCTC	CCCAGATGTA	GTGAAAGCAG	GTAGATTGCC	39480
TTGCCTGGCC	TTGCCTGGCC	TTGCCTTTTC	TTTCTTTCTT	TCTTTCTTTA	TTACTTTCTC	39540
TTTTTCTTCT	TCTTCTTCTT	CTTTTTTTTG	AGACAGAGTT	TCACTCTTGT	TGCCCAGGCT	39600
AGAGGGCAAT	GGCGCGATCT	CGGCTCACCG	CACCCCTCCG	CTCCCAGGTT	CAAGCGATTG	39660
TCCTGCCTCA	GCCTCCTGAT	TAGCTGGGAT	TACAGGCATG	GGCCACCGTG	CTGGCTGATG	39720
TTTGTACTTT	TAGTAGAGAC	GGTGTTTTTT	CATGTTGGTC	AGGCTGGTCT	CCCACTCCCA	39780
ACCTCAGGTG	GTCCGCCTGC	CTTAGCCTCC	CAAAGTGCTG	GGATGACAGG	CGTGCAACCG	39840
CGCCCAGCCT	CTCTCTCTCT	CTCTCTCTCT	CTCGCTCGCT	TGCTTGCTTG	CTTTCGTGCT	39900
TTCTTGCTTT	CCCGTTTCTT	TGCTTTCTTT	CTTCTTTCTG	TTTCTTTCTT	GCTTGCTTTT	39960
TTGCTTGCTT	GCTTGCTTTT	GTGCTTTCTT	GCTTTCCTGT	TTTCTTTCTT	TCTTTCTTTT	40020
TTTCTTTCTT	TTGTTTCTTT	CTTGCTTGCT	TTCTTGCTTG	CTTGCTTGCT	TTCTTGCTTT	40080
CTTGCTTTCC	TGTTTTCTTT	CTTCTTTCTT	TTCTTTTCTT	TCTTTCTTGC	TTGCTTTCCCT	40140
GCTTGCTTGC	TTTTCGTGCTT	TCTTGTTTTT	TCGATTTCTT	TCTTTCTTTT	GTTTCTTTCC	40200
TGCTTGCTTT	CTTGCTTGCT	TGCTTTCGCT	CTTCTTGCTT	TCCTGTTTTT	TTTCTTTCTT	40260
TCTTTCTTTT	GTTTCTTTCT	TGCTTGCTTT	CTTGCTTGCT	TGCTTTCGTG	CTGTCTTGTT	40320
TCTCGATTTT	TTTCTTTCTT	TTGTTTCTTT	CCTGCTTGCT	TTCTTGCTTG	ATTGCTTTCT	40380
TGCTTTCTTG	CTTTCTTGTT	TTCTTTCTTT	CTTTTGTTTT	TTTCTTTCTT	GCTTCCCTGT	40440
TTTCTTGCTT	CTTGCTTGCT	TTGCTTTCGT	GCTTTCTTGT	TTTCTTGCTT	TCTTTCTTTT	40500
GTTTCTTTCT	TGCTTGCTTT	CTTGCTTCCCT	CTTTCTTCTG	CTTTCTTGCT	TGCTTGCTTT	40560
CGTGCTTTCT	TTCTTGCTTT	CTTTTCTTTT	TTTCTTTTCT	TTTTCTTTCT	TTCTTGCTTT	40620
CTTTTCTTTT	ATCATCATCT	TTCTTTCTTT	CCTTTCTTTT	TTTCTTTCTT	TCTATCTTTC	40680
TTTCTTTCTT	TCTTTCTTTT	TTTCTTTCTT	TCTTTCTGTT	TCGTCCTTTT	GAGACAGAGT	40740
TTCACTCTTG	TTTCCACGGC	TAGAGTGCAA	TGGCGCGATC	TTGGCTCACC	GCACCTTCCG	40800
CCTCCCGGGT	TCGAGCGCTT	CTCCTGCCTC	CAGCCTCCCG	ATTAGCGGGG	ATTGACAGGG	40860
AGGCACCCCC	ACGCCTGGCT	TGGCTGATGT	TTGTGTTTTT	AGTAGGCACG	CCGTGTCTCT	40920
CCATGTTGCT	CAGGCTGGTC	TCCAACCTCC	GACCTCCTGT	GATGCGCCCA	CCTCGGCCTC	40980
TCGAAGTGCT	GGGATGACGG	GCGTGACGAC	CGTGCCCGGG	CTGTTGACTC	ATTTTCGCTT	41040
TTTATTTCTT	TCGTTTCCAC	GCGTTTACTT	ATATGTATTA	ATGTAAACGT	TTCTGTACGC	41100
TTATATGCAA	ACAACGACAA	CGTGTATCTC	TGCATTGAAT	ACTCTTGCGT	ATGGTAAATA	41160
CGTATCGGTT	GTATGGAAAT	AGACTTCTGT	ATGATAGATG	TAGGTGTCTG	TGTTATACAA	41220
ATAAATACAC	ATCGCTCTAT	AAAGAAGGGA	TCGTCGATAA	AGACGTTTAT	TTTACGTATG	41280
AAAAGCGTCG	TATTTATGTG	TGTAATGAA	CCGAGCGTAC	GTAGTTATCT	CTGTTTTCTT	41340
ACTTCTCTCT	CTTCTGTTTT	TTCTTCTTCT	CTTCTCTCCT	TTCTCTCCTT	CTTTAGGTTT	41400
TTCTTCTCTT	CTTCTTTTCC	TTCTTTCTCT	CTTCTGTGCT	TTTTTTCTCT	CGTGCTTTAT	41460
TTCTCTTTCT	TTCCCTGTGT	TTCTTTCTTT	TTTCTTTCTT	CTCTGTTTCT	TTTTCCCTTC	41520
TTTCTTTCTG	TTCTTTCTCT	ATTCTTTCTC	TCTTTTCTGT	TGTTTCTTTT	CTTCCCCTCT	41580
GTCTTTTAAA	AAATTGGAGT	GTTTCAGAAG	TTTACTTTGT	GTATCTACGT	GTATCTAAAT	41640
GTCTCTCTTT	TCTCCATTTT	CTTCTCTCCT	CCCTCCCTCC	CCTCCCTGCT	CCTTCCCTCC	41700
CTCCTTCCCT	TTCCGCATCT	GTCTCTTTTC	CCCACTCCCC	TCCCCCGGTC	TGTCTCTGCG	41760
TGGATTCCGG	AAGAGCCTAC	CGATTCTGCC	TCTCCGTGTG	TCTGCAGCGA	CCCCGCGACC	41820
GAGTCCTTGT	GTGTTCTTTT	TCCCTCCCTC	CCTCCCTCCC	TCCCTCCCTC	CCTCCCTGCT	41880
TCCGAGAGGC	ATCTCCAGAG	ACCGCGCCGT	GGGTTGTCTT	CTGACTCTGT	CGCGGTCGAG	41940

GCAGAGACGC	GTTTTGGGCA	CCGTTTGTGT	GGGGTTGGGG	CAGAGGGGCT	GCGTTTTTCGG	42000
CCTCGGGAAG	AGCTTCTCGA	CTCACGGTTT	CGTTTTTCGCG	GTCCACGGGC	CGCCCTGCCA	42060
GCCGGATCTG	TCTCGCTGAC	GTCCGCGGCG	GTTGTGCGGC	TCCATCTGGC	GGCCGCTTTG	42120
AGATCGTGCT	CTCGGCTTCC	GGAGCTGCGG	TGGCAGCTGC	CGAGGGAGGG	GACCGTCCCC	42180
GCTGTGAGCT	AGGCAGAGCT	CCGAAAGCC	CGCGTCTGTC	AGCCCGGCTG	GCCCGGTGGC	42240
GCCAGAGCTG	TGGCCGGTCG	CTTGTGAGTC	ACAGCTCTGG	CGTGCAGGTT	TATGTGGGGG	42300
AGAGGCTGTC	GCTGCGCTTC	TGGGCCCGCG	GCGGGCGTGG	GGCTGCCCGG	GCCGGTTCGAC	42360
CAGCGCGCCG	TAGCTCCCGA	GGCCCGAGCC	GCGACCCGGC	GGACCCGCCG	CGCGTGGCGG	42420
AGGCTGGGGA	CGCCCTTCCC	GGCCCGGTCT	CGGTCCGCTC	ATCCTGGCCG	TCTGAGGCGG	42480
CGGCCGAATT	CGTTTCCGAG	ATCCCCGTGG	GGAGCCGGGG	ACCGTCCCCG	CCCCGTCCCC	42540
CGGGTGCCCG	GGAGCGGTCC	CCGGGCCCGG	CCGCGTCCC	TCTGCCGCGA	TCCTTTCTGG	42600
CGAGTCCCCG	TGGCCAGTCG	GAGAGCGCTC	CCTGAGCCGG	TGCGGCCCGA	GAGGTTCGCG	42660
TGGCCGGCCT	TCGGTCCCTC	GTGTGTCCCG	GTCGTAGGAG	GGGCCGGCCG	AAAATGCTTC	42720
CGGCTCCCGC	TCTGGAGACA	CGGGCCGGGT	CCTGCGTGTG	GCCAGGGCGG	CCGGGAGGGC	42780
TCCCGGCCCC	GGCGCTGTCC	CCGCGTGTCT	CCTTGGGTTG	ACCAGAGGGA	CCCCGGGCGC	42840
TCCGTGTGTG	GCTGCGATGG	TGGCGTTTTT	GGGGACAGGT	GTCCGTGTCC	GTGTGCGCGG	42900
TCGCCTGGGC	CGGCGGCGTG	GTCGGTGACG	CGACCTCCCC	GCCCCGGGGG	AGGTATATCT	42960
TTCGCTCCGA	GTCGGCAATT	TTGGGCCGCC	GGTTATAT			42999

(2) INFORMATION FOR SEQ ID NO:18:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 175 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: Genomic DNA
- (iii) HYPOTHETICAL: NO
- (iv) ANTI-SENSE: NO
- (v) FRAGMENT TYPE:
- (vi) ORIGINAL SOURCE:
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:18:

CTCCCGCGCG	GCCCCCGTGT	TCGCCGTTCC	CGTGGCGCGG	ACAATGCGGT	TGTGCGTCCA	60
CGTGTGCGTG	TCCGTGCAGT	GCCGTTGTGG	AGTGCCTCGC	TCTCCTCCTC	CTCCCGGCGA	120
CGGTTCCAC	GTTGGGGAC	CACCGGTGAC	CTCGCCCTCT	TGGGCGCTGG	ATCCG	175

(2) INFORMATION FOR SEQ ID NO:19:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 755 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: Genomic DNA
- (iii) HYPOTHETICAL: NO
- (iv) ANTI-SENSE: NO
- (v) FRAGMENT TYPE:
- (vi) ORIGINAL SOURCE:
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:19:

GGTCTGGTGG	GAATTGTTGA	CCTCGCTCTC	GGGTGCGGCC	TTTGGGGAAC	GGCGGGGTCTG	60
GTCGTGCCCC	GCGCCGGACG	TGTGTGCGGG	CCCACTTCCC	GCTCGAGGGT	GGCGGTGGCG	120
GCGGCGTTGG	TAGTCTCCCG	TGTTGCGTCT	TCCCGGGCTC	TTGGGGGGGG	TGCCGTCGTT	180
TTCGGGGCGG	GCGTTGCTTG	GCTTACGCAG	GCTTGGTTTT	GGACTGCCTC	AGGAGTCGTG	240
GGCGGTGTGA	TTCCCGCCGG	TTTTCCTCG	CGTCTGCCTG	CTTTGCCTCG	GGTTTGCTTG	300
GTTCTGTGCT	CGGGAGCGGT	GGTTTTTTTT	TTTTTCGGGT	CCCGGGGAGA	GGGGTTTTTC	360
CGGGGGACGT	TCCCGTCGCC	CCCTGCCGCC	GGTGGGTTTT	CGTTTCGGGC	TGTGTTCTGTT	420
TCCCTTTCCC	CGTTTCGCCG	TCGGTCTCTC	CCGGTCGGTC	GGCCCTCTCC	CCGGTCGGTC	480
GCCCGGCCGT	GCTGCCGGAC	CCCCCTTCT	GGGGGGGATG	CCCGGGCACG	CACGCGTCCG	540
GGCGGCCACT	GTGGTCCGGG	AGCTGCTCGG	CAGGCGGGTG	AGCCAGTTGG	AGGGGCGTCA	600
TGCCCCCGCG	GGCTCCCGTG	GCCGACGCGG	CGTGTCTTTT	GGGGGGGCCT	GTCCGTGCGG	660

GAAGGCTGCG CACGTTGTCG GTCCTTGCGA GGGAAAGAGG CTTTTTTTTT TTAGGGGGTC 720
GTCCTTCGTC GTCCCGTCGG CGGTGGATCC GGCCT 755

(2) INFORMATION FOR SEQ ID NO:20:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 463 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: Genomic DNA
- (iii) HYPOTHETICAL: NO
- (iv) ANTI-SENSE: NO
- (v) FRAGMENT TYPE:
- (vi) ORIGINAL SOURCE:

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:20:

GGCCGAGGTG	CGTCTGCGGG	TTGGGGCTCG	TCCGGCCCCG	TCGTCCTCCG	GGAAGGCGTT	60
TAGCGGGTAC	CGTCGCCCGG	CCGAGGTGGG	CGCACGTCCG	TGAGATAACC	CCGAGCGTGT	120
TTCTGTTTGT	TGGCGGCGGG	GGCTCCGGTC	GATGTCTTCC	CCTCCCCCTC	TCCCCGAGGC	180
CAGGTCAGCC	TCCGCCTGTG	GGCTTCGTCT	GCCGTCTCCC	CCCCCCTCAC	GTCCCTCGCG	240
AGCGAGCCCC	TCCGTTTCGAC	CTTCCTTCCG	CCTTCCCCCC	ATCTTTCCGC	GCTCCGTTGG	300
CCCCGGGGTT	TTCACGGCGC	CCCCCACGCT	CCTCCGCCCT	TCCGGCCGTG	GTTTGGACGC	360
CTGGTTCCGG	TCTCCCCGCC	AAACCCCGGT	TGGGTTGGTC	TCCGGCCCCG	GCTTGCTCTT	420
CGGGTCTCCC	AACCCCGGCC	CGGAAGGGTT	CGGGGGTTCC	GGG		463

(2) INFORMATION FOR SEQ ID NO:21:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 378 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: Genomic DNA
- (iii) HYPOTHETICAL: NO
- (iv) ANTI-SENSE: NO
- (v) FRAGMENT TYPE:
- (vi) ORIGINAL SOURCE:

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:21:

GGATTCTTCA	GGATTGAAAC	CCAAACCGGT	TCAGTTTCCT	TTCCGGCTCC	GGCCGGGGGG	60
GGCGGCCCCG	GGCGGTTTGG	TGAGTTAGAT	AACCTCGGGC	CGATCGCACG	CCCCCGTGG	120
CGGCGACGAC	CCATTGCAAC	GTCTGCCCTA	TCAACTTTCG	ATGGTAGTCG	ATGTGCCTAC	180
CATGGTGACC	ACGGGTGACG	GGGAATCAGG	GTTTCGATTCC	GGAGAGGGAG	CCTGAGAAAC	240
GGCTACCACA	TCCAAGGAAG	GCAGCAGGCG	CGCAAATTAC	CCACTCCCGA	CCCGGGGAGG	300
TAGTGACGAA	AAATAACAAT	ACAGGACTCT	TTCGAGGCC	TGTAATTGGA	ATGAGTCCAC	360
TTTAAATCCT	TTAAGCAG					378

(2) INFORMATION FOR SEQ ID NO:22:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 378 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: Genomic DNA
- (iii) HYPOTHETICAL: NO
- (iv) ANTI-SENSE: NO
- (v) FRAGMENT TYPE:
- (vi) ORIGINAL SOURCE:

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:22:

GATCCATTGG	AGGGCAAGTC	TGGTGCCAGC	AGCCGCGGTA	ATTCCAGCTC	CAATAGCGTA	60
TATTAAAGTT	GCTGCAGTTA	AAAAGCTCGT	AGTTGGATCT	TGGGAGCGGG	CGGGCGGTCC	120
GCCGCGAGGC	GAGTCACCGC	CCGTCCCCGC	CCCTTGCCCTC	TCGGCGCCCC	CTCGATGCTC	180
TTAGCTGAGT	TGTCCCGCGG	GGCCCCAAGC	GTTTACTTTG	AAAAAATTAG	AGTTGTTTCA	240
AAGCAGGCCC	GAGCCGCCTG	GATACCGCCA	GCTAGGAAAT	AATGGAATAG	GACCGCGGTT	300
CCTATTTTGT	TTGGTTTTCG	GAAC TGAGCC	CATGATTAAG	GGAAACGGCC	GGGGGCATTC	360
CCTTATTGCG	CCCCCCTA					378

(2) INFORMATION FOR SEQ ID NO:23:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 719 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: Genomic DNA
- (iii) HYPOTHETICAL: NO
- (iv) ANTI-SENSE: NO
- (v) FRAGMENT TYPE:
- (vi) ORIGINAL SOURCE:

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:23:

GGATCTTTTC	CGCTCCCCGT	TCCTCCCGGC	CCCTCCACCC	GCGCGTCTCC	CCCCTTCTTT	60
TCCCCTCTCC	GGAGGGGGGG	GAGGTGGGGG	CGCGTGGGCG	GGGTGCGGGG	TGGGGTCGGC	120
GGGGGACCGC	CCCCGGCCGG	CAAAAGGCCG	CCGCCGGGCG	CACTTCAACC	GTAGCGGTGC	180
GCCGCGACCG	GCTACGAGAC	GGCTGGGAAG	GCCCCACGGG	GAATGTGGCT	CGGGGGGGGC	240
GGCGCGTCTC	AGGGCGCGCC	GAACCACCTC	ACCCCGAGTG	TTACAGCCCT	CCGGCCGCGC	300
TTTCGCGGAA	TCCCGGGGCC	GAGGGGAAGC	CCGATACCCG	TCGCCGCGCT	TTTCCCTTCC	360
CCCCGTCCGC	CTCCCGGGCG	GGCGTGGGGG	TGGGGGCCCG	GCCGCCCCCTC	CCACGCCCCGT	420
GGTTTCTCTC	TCTCCCGGTC	TCGGCCCGTT	TGGGGGGGGG	AGCCCGGTTG	GGGGCGGGGC	480
GGACTGTCCT	CAGTGCGCCC	CGGGCGTCGT	CGCGCCGTCG	GGCCCGGGGG	GTTCTCTCGG	540
TCACGCCCGA	CCCGACGAAG	CCGAGCGCAC	AGGGTCGGCG	GCGATGTCGG	CTACCCACCC	600
GACCCGTCTT	GAAACACGGA	CCAAGGAGTC	TAACGCGTGC	GCGAGTCAGG	GGCTCGCACG	660
AAAGCCGCCG	TGGCGCAATG	AAGGTGAAGG	GCCCCGTCCG	GGGGCCCCGAG	GTGGGATCC	719

(2) INFORMATION FOR SEQ ID NO:24:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 685 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: Genomic DNA
- (iii) HYPOTHETICAL: NO
- (iv) ANTI-SENSE: NO
- (v) FRAGMENT TYPE:
- (vi) ORIGINAL SOURCE:

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:24:

CGAGGCCTCT	CCAGTCCGCC	GAGGGCGCAC	CACCGGCCCG	TCTCGCCCGC	CGCGTCGGGG	60
AGGTGGAGCA	CGAGCGTACG	CGTTAGGACC	CGAAAGATGG	TGAACATATG	CTGGGCAGGG	120
CGAAGCCAGA	GGAAACTCTG	GTGGAGGTCC	GTAGCGGTCC	TGACGTGCAA	ATCGGTCTGC	180
CGACCTGGGT	ATAGGGGCGA	AAGACTAATC	GAACCATCTA	GTAGCTGGTT	CCCTCCGAAG	240
TTTCCCTCAG	GATAGCTGGC	GCTCTCGCAA	CCTTCGGAAG	CAGTTTTATC	CGGGTAAAGG	300
CGGAATGGAT	TAGGAGGTCT	TGGGGCCGGA	AACGATCTCA	AACTATTTCT	CAAACCTTAA	360
ATGGGTAAAG	AAGCCCGGCT	CGCTGGCGTG	GAGCCGGGCG	TGGAATGCGA	GTGCCTAGTG	420
GGCCACTTTT	GGTAAGCAGA	ACTGGCGCTG	CGGGATGAAC	CGAACGCCGG	GTTAAGGCGC	480
CCGATGCCGA	CGCTCATCAG	ACCCAGAAAG	AGGTGTTGGT	TGATATAGAC	AGCAGTAAAG	540
TGGCCATGGA	AGTCGGAATC	CGCTAAGGAG	TGTGTAACAA	CTCACCTGCC	GAATCAACTA	600
GCCCTGAAAA	TGGATGGCGC	TGGAGCGTCG	GGCCCATACC	CGGCCGTCGC	CGGCAGTCGG	660
AACGGGACGG	GACGGGAGCG	GCCCGC				685

(2) INFORMATION FOR SEQ ID NO:25:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 33 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: Genomic DNA
- (iii) HYPOTHETICAL: NO
- (iv) ANTI-SENSE: NO
- (v) FRAGMENT TYPE:
- (vi) ORIGINAL SOURCE:

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:25:

GAGGAATTCC CCTATCCCTA ATCCAGATTG GTG

33

(2) INFORMATION FOR SEQ ID NO:26:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 35 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: Genomic DNA
- (iii) HYPOTHETICAL: NO
- (iv) ANTI-SENSE: NO
- (v) FRAGMENT TYPE:
- (vi) ORIGINAL SOURCE:

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:26:

AAACTGCAGG CCGAGCCACC TCTCTTCTGT GTTTG

35

(2) INFORMATION FOR SEQ ID NO:27:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 33 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: Genomic DNA
- (iii) HYPOTHETICAL: NO
- (iv) ANTI-SENSE: NO
- (v) FRAGMENT TYPE:
- (vi) ORIGINAL SOURCE:

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:27:

AGGAATTCAC AGAAGAGAGG TGGCTCGGCC TGC

33

(2) INFORMATION FOR SEQ ID NO:28:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 34 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: Genomic DNA
- (iii) HYPOTHETICAL: NO
- (iv) ANTI-SENSE: NO
- (v) FRAGMENT TYPE:
- (vi) ORIGINAL SOURCE:

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:28:

AGCCTGCAGG AAGTCATACC TGGGGAGGTG GCCC

34

(2) INFORMATION FOR SEQ ID NO:29:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 80 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: Genomic DNA

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(v) FRAGMENT TYPE:

(vi) ORIGINAL SOURCE:

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:29:

AAACTGCAGG TTAATTAACC CTAACCCTAA CCCTAACCCT AACCTAACC CTAACCCTAA
CCCTAACCCT AACCCGGGAT

60
80

(2) INFORMATION FOR SEQ ID NO:30:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 19 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: Genomic DNA

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(v) FRAGMENT TYPE:

(vi) ORIGINAL SOURCE:

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:30:

TTGGGCCCTA GGCTTAAGG

19

(2) INFORMATION FOR SEQ ID NO:31:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 25 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: Genomic DNA

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(v) FRAGMENT TYPE:

(vi) ORIGINAL SOURCE:

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:31:

GCCAGGGTTT TCCAGTCAC GACGT

25

(2) INFORMATION FOR SEQ ID NO:32:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 26 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: Genomic DNA
(iii) HYPOTHETICAL: NO
(iv) ANTI-SENSE: NO
(v) FRAGMENT TYPE:
(vi) ORIGINAL SOURCE:

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:32:

GCTGCAAGGC GATTAAGTTG GGTAAC

26

(2) INFORMATION FOR SEQ ID NO:33:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 26 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: Genomic DNA
(iii) HYPOTHETICAL: NO
(iv) ANTI-SENSE: NO
(v) FRAGMENT TYPE:
(vi) ORIGINAL SOURCE:

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:33:

TATGTTGTGT GGAATTGTGA GCGGAT

26

(2) INFORMATION FOR SEQ ID NO:34:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 21 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: Genomic DNA
(iii) HYPOTHETICAL: NO
(iv) ANTI-SENSE: NO
(v) FRAGMENT TYPE:
(vi) ORIGINAL SOURCE:

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:34:

GGGTTTAAAC AGATCTCTGC A

21